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International Smoking Statistics: A collection  
of historical data from 22 developed countries

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Date : July 1990

DRAFT INTRODUCTION AND METHODS SECTION

1. Introduction

In a number of individual countries, attempts have been made to relate national trends in mortality rates from various smoking associated diseases to corresponding national trends in the consumption of cigarettes and other tobacco products (e.g. suitable references to come). While comprehensive data on sex- and age-specific mortality rates are generally available (e.g. Alderson (1981) and the series of World Health Statistics Annuals of the WHO), we are not aware of any document which presents corresponding historical smoking data for a wide range of countries. The Tobacco Research Council used to provide historical data on tobacco consumption but this has important limitations. Firstly, it has been discontinued and the last edition (Lee, 1975) gives data only up to 1973. Secondly, it was wholly based on data from sales and as such provided no information broken down by age and sex, which is so essential for comparison with mortality trends. Data from surveys are required and the main objective of this monograph is to try to collect together in as consistent a format as possible such information as is available for the various countries considered.

Much of the data in this monograph were collected together by the late Mr.G.F.Todd, past director of the Tobacco Research Council, who had

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a life-long interest in smoking statistics. Shortly before he died in 1988 he had prepared a draft report summarizing relevant information for a number of countries. This work was supplemented by a literature search for further sources of information and this volume is based on the combined material.

## 2. Countries considered

This monograph presents historical data on cigarette consumption up to 1985 in 22 countries

Australia	W. Germany	New Zealand
Austria	Greece	Norway
Belgium	Ireland	Portugal
Canada	Israel	Spain
Denmark	Italy	Sweden
Finland	Japan	Switzerland
France	Netherlands	UK
		USA

These represent all those countries for which, at the start of the project, it was felt at all likely that sufficient age- and sex-specific smoking data could be collected to allow useful study of the relationship with mortality statistics. Data for the United Kingdom are presented in shortened form as comprehensive historical smoking data have recently been published (Wald et al, 1988). (Tables to be added later.)

## 3. Main Sources of Data

Data from two main sources are presented. Firstly, sales data gives the total national consumption of tobacco products. Secondly survey based data which gives information on the prevalence and level of smoking

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by sex and age.

Population data are taken from WHO estimates from 1950 onwards. In earlier years, Lee (1975) was used for total adult populations, and Alderson (1981) for sex- and age-specific data.

#### 4. Sales data

Table A presents the sales based information relevant to cigarettes and to total tobacco at all available years. The data are presented as the total national consumption for the year, and as the daily consumption per adult (age 15+). Number of manufactured cigarettes are known, and the number of handrolled cigarettes have been estimated where possible, in order to give the total number of cigarettes. Total tobacco is shown by weight.

Table B gives details of the total national consumption of all types of tobacco known to be used in each country. Products such as cigarettes, cigars, cigarillos and cheroots are shown both by numbers and by weight; in most countries the weights have been estimated. This data is given for selected years up to 1970 (to be added) and by individual years from 1974 onwards.

Data on smokeless tobacco is included, and takes various forms in different countries. Chewing tobacco, chewed or held in the cheek or lower lip, is in 3 main types - loose leaf, plug and twist. Snuff has a much finer consistency and is held in the mouth without chewing; it may be moist or dry. Dry snuff may also be taken nasally, but this practice is now very limited. Recently, snuff in small pouches the size of tea bags has been introduced in some countries.

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Table C shows the relative consumptions of the different types of tobacco, at selected years.

Lee (1975) is the source of sales data up to 1973. Sources of later data are given in the notes, together with methods of estimations and assumptions.

## 5. Survey Data

Tables D and E present data from a wide variety of surveys. Table D gives the prevalence of smoking, i.e. the percentage of the population who smoke cigarettes or all products, and Table E gives the number of cigarettes smoked per smoker. These figures are presented by sex and, if available, by age group. Figures in Table D are presented to the nearest whole number, and in Table E to 2 significant figures.

### 5.1 Sources

Each source of survey data - either an individual survey or a series of surveys repeated over a number of years - is referenced by a source number. This is shown in the tables, for cross-referencing the accompanying notes, where details of the source publication and of the survey methodology are given. The year of each survey (or mid-point year if carried out over a longer period) is shown in the tables.

Nationally representative surveys have been used where possible. However these do not apparently exist (or are not available from trade sources) for some countries, nor for earlier years. Non-representative sources are then included. In some cases, surveys were based on specific regions or racial groups. Surveys of teenagers are frequently based on school students, who may not be representative beyond normal school leaving age. Control populations from case/control studies have sometimes been used where no other data are available. Studies of occupational

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groups have generally not been used. Even surveys based on large regions cannot necessarily be regarded as typical of the whole country, since the region may have been selected for study due to an unusual mortality pattern.

While an attempt has been made to include all survey data of value, no claims are made that the information provided is comprehensive. Any reader aware of additional material they think is relevant is welcome to get in touch with the authors, so that consideration can be given to including it in later editions.

## 5.2 Age groups

The age-groups used in Tables D and E are single years of age from 12 to 19 and 5 year age groups from 20-24 to 80-84. The overall age range covered by each survey, and the breakdown into age groups is indicated by the boundaries in the row. For ages 20 or over, surveys usually only provide data by intervals of 5 years or more and there is then no problem fitting in the estimated percentage of smokers or cigarette consumption into the available space. Exceptionally data are provided for narrower age ranges, necessitating averaging of estimates and/or widening the boundaries. This is indicated in the notes where it applies.

Some surveys provide data relevant to the whole age group studied as well as for each age group. These figures are included in Tables D and E, where applicable, in the final column. The age range to which they are applicable is indicated by the boundaries to the results by age. (For estimates relevant to all adults' ages, see Table H). A blank row indicates that the survey did not cover that sex.

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### 5.3 Product codes

Although the main interest lay in cigarette smoking, the definitions of smoking categories used in different surveys vary so much that comparisons are not straightforward. A "product code" has been used to distinguish the various possibilities, as follows:

MC	manufactured cigarettes
TC	total cigarettes (manufactured <u>and</u> handrolled)
UC	cigarettes (type unspecified)
A	any product
U	product unspecified

Note that the definition of cigarette smokers includes those who smoke other products (pipe, cigars, etc.) as well as cigarettes. Smokers of any product includes all cigarette smokers and also those who smoked other products but not cigarettes.

No attempt has been made to include data on smokers of handrolled cigarettes only, nor on smokers of other products only, nor by the type of manufactured cigarette (eg. filter/plain, high/low tar, dark/blond tobacco).

### 5.4 Frequency codes

Definitions of being a smoker also vary; some are limited to regular or daily smokers, some relate to smoking the day before the survey, some are self-defined. In Table D, a "frequency code" has been used, as follows:

A	all smokers (regular and occasional)
R	regular smokers
U	frequency unspecified

Where figures for both regular and all smokers are available, both are presented.

Where necessary further details of the product and frequency definitions are given in the notes to the tables.

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### 5.5 Interval estimation

In many studies, information is not presented directly on the numbers of cigarettes smoked per day per smoker. Instead, the distribution of smokers according to various groupings of number smoked (e.g. 1-9, 10-19, 20-29, 30-39, 49+) is given. Todd introduced a method for estimating the mean consumption level for each interval and hence estimating the average consumption per smoker. The method is described in detail in Appendix 1. In Table E, the code I has been used to indicate that this interval estimation has been used. Details of the class intervals used are given in the notes to the tables.

In the absence of any better alternative, this method has also been applied to some surveys of teenage smoking and to surveys of weekly (rather than daily) consumption.

## 6. Additional survey based tables

### 6.1 Consumption per person by age and sex

Table F presents the consumption per person, i.e. the number of cigarettes smoked per person per day, averaged over both smokers and non-smokers. These figures have been calculated, generally by Todd or by the authors, by multiplying together the percentage of smokers and the consumption per smoker.

In some cases, the two sets of figures are not on an exactly comparable basis but the figures are presented as being the best available. For instance, we may have the percentage of smokers of any product and the cigarette consumption per cigarette smoker. Multiplying these will give a reasonable estimate provided the percentage of other smokers is small; otherwise it will give an overestimate. How much of a problem this is will vary both with country and sex - in many countries

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more men than women smoke other products. Such problems are indicated by a reliability code \* and are detailed in the notes.

It is well known (references to be inserted) that the total consumption of cigarettes, when grossed up from survey findings, is almost invariably substantially lower than the total sales of cigarettes. The degree of this understatement is indicated in the final column of Table F, where the consumption implied by the survey is given as a percentage of the sales. The method of calculating this % is described in the next paragraph. In Table G, the figures for consumption per person are presented again, adjusted to match total sales. This method assumes that the degree of understatement is uniform over both sexes and all age groups. This assumption may not be justifiable, but adjusted figures probably give a more realistic picture of consumption than unadjusted figures.

The age groups, product, source reference and year are all as described for Tables D and E. Note that a frequency code is not generally needed (calculations were based on regular smokers if possible, otherwise mentioned in the notes).

## 6.2 Adjustment for understatement

Surveys which covered both sexes and an age range of at least 21-64 are used.

Where there were gaps in the consumption per person data for ages 15-20 or 65+, these were filled in by guestimates which are shown in the notes. The arbitrary nature of this process is probably unimportant, since the guestimates apply only to a relatively small proportion of the population. Smoking by persons aged under 15 was ignored in calculating

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the total consumption implied by the survey, except where the lowest age group "overlapped" the age of 15. Such data would contribute little to the total. If a survey provided data both by age and on an overall basis, the figures by age were used in the calculation.

Population data were taken from WHO 5-year age group data. Where population figures for single years of age were required, they were assumed to be one-fifth of those for the 5-year age group.

The survey consumption data were then combined with the population data to calculate the total national consumption by adults implied by the survey. In some cases, there was a problem in aligning the type of product recorded as having been smoked in the survey and that for which sales data were available. The product used is indicated by an adjustment code as follows:

<u>Adjustment Code</u>	<u>Explanation</u>
M	Survey data relates (or probably relates) to manufactured cigarette consumption. Adjustment is to sales of manufactured cigarettes.
T	Survey data (probably) relates to total cigarette consumption (manufactured and handrolled). Adjustment is to our estimate of total cigarette consumption.
m	Survey data (probably) relates to total cigarette consumption. Handrolled consumption is believed to be rare, so adjustment is to sales of manufactured cigarettes.
-	Calculations previously made by Todd on a very similar basis, or by original authors, and not recalculated.

### 6.3 Summary of adult smoking by sex

Table H presents a summary of adult smoking, by sex but not by age. It gives estimates of the prevalence of smoking of cigarettes and of all products, and estimates of cigarette consumption per person, both unadjusted and adjusted to match total sales.

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All surveys covering an age range of at least 21-64 are included. The source reference number is given so that the survey can be found in the age-specific tables and the notes.

Any gaps in the consumption per person data for ages 15-20 or 65+ are filled in by guesstimates as described in section 6.2. A similar process is used for the prevalence data. The age-specific data are then combined with the population data to calculate the average for the whole adult (15+) range.

The product, frequency and interval estimation codes are all shown, as in Tables D-G, as are the adjustment factor and adjustment product code, as in Tables F-G.

For some surveys, no survey consumption data were available in Table F, but data on the percentage of cigarette smokers was available in Table D. Using the additional assumption that the consumption level per female smoker is 80% of that per male smoker, it was then possible to divide the total sales-based consumption figures into separate estimates for each sex. Such estimates are shown in parentheses. They have occasionally been included even if based on unspecified product, but only where it was reasonable to assume that they related to cigarettes.

#### Appendix 1

##### Estimation of means of class intervals

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Australia

Source  
number

- 1      Ref:      Woodward (1984) table 2 (1945 survey: quoting  
                 Australian Gallup Poll)  
         GFT table no: 2.1  
         Note: 1. Presumed to be smokers of manufactured and/or handmade  
                 cigarettes  
                 2. Presumed age 16+  
                 3. Guesstimates for % smokers, age 15, Males 1945,64:25,  
                 1969:20; Females 1945,64,69:10.
- 2      Refs:      1974 data: Gray and Hill (1975)  
                 1976 data: Gray and Hill (1977)  
                 1980 data: Hill and Gray (1982)  
                 1983 data: Hill and Gray (1984)  
         GFT table no: 2.2, 3.1-3.4  
         Note: 1. National surveys commissioned by the Anti-Cancer  
                 Council of Victoria  
                 Sample sizes : 1974: 6637 persons  
                 1976: 3873 persons  
                 1980: 4309 persons  
                 1983: 5580 persons  
                 2. Consumption per smoker is based on broader age groups  
                 than % of smokers for 1974 and 1976  
                 3. Interval estimation (1974 and 1976) based on  
                 1-19,20-24,25+.  
                 4. Guesstimates for % smokers, age 15, Males  
                 1974,76,80,83:20; Females 1974,76:15, 1980,83:20. Cigs  
                 per person:2.0.
- 3      Ref:      Report on Alcohol and Tobacco Consumption Patterns,  
                 February 1977, tables 7,10. Australian Bureau of  
                 Statistics  
         GFT table no: 2.3, 3.5  
         Note: 1. Sample size: "About two-thirds of one per cent of the  
                 population of Australia"  
                 2. Percentages of manufactured cigarette smokers presumed  
                 to include smokers of both manufactured and HR  
                 3. Guesstimates for age 15-17, Male and Female % smokers  
                 TC and MC:25. Cigs per person 3.0
- 4      Ref:      Tobacco Institute of Australia  
         GFT table no: 2.5  
         Note: 1. Confidential  
                 2. Guesstimates for age 15-17, Male and Female %  
                 smokers:25

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- 5      Ref:      Percentages of cigarette smokers probably by McNair.  
                 Cigarettes per smoker possibly by K.S. Brown or R.W.  
                 Gibberd.  
         GFT table no: 4.1-4.6, 4.8-4.14  
         Note: 1. Confidential  
                 2. Presumably 12 months to 30th June  
                 3. Interval estimation by original authors, based on  
                 1-10,11-19,20+  
                 4. Two estimates (labelled I and II) are given for  
                 cigarettes per smoker, reasons for the two estimates  
                 are unknown, and may be obsolete. Estimate I used to  
                 calculate consumption per person
- 6      Ref:      Morgan and Australian Bureau of Statistics  
                 GFT table no: 4.7, 4.4  
         Note: 1. Confidential  
                 2. There is an unexplained discrepancy with table 3
- 7      Ref:      Shean, R.C. (1985) p.470  
         GFT table number: 5  
                 ? OMIT - other national surveys now available (see DCS &  
                 H for more regional surveys)
- 10     Ref:      National Heart Foundation (1983)  
         Note:      Taken from charts. Year uncertain
- 11     Ref:      Dept. Community Services & Health (1990) quoting  
                 National Heart Foundation of Australia (1980)(1983)  
         Note: 1. Australian State capital cities  
                 2. Sample sizes 4309 (1980), 7600 (1983)  
                 3. Consumption per person is based on % smokers of all  
                 cigarettes and number of manufactured cigarettes smoked  
                 per day by smokers of manufactured cigarettes. This  
                 assumes the same smoking level by HR smokers as by  
                 man.cig. smokers
- 12     Ref:      WHO (1978) quoting Leeder and Woolcock (1973)  
         Note: 1. WHO (1978) quoting Leeder and Woolcock (1973)  
                 2. Sydney schoolchildren  
                 Weekly smokers
- 13     Ref:      Dwyer et al (1986)  
         Note:      Nationwide survey excluding Sydney (control study of  
                 anti-smoking campaign in Sydney). Sample size 5154,  
                 response rate 60%
- 14     Ref:      Hill et al (1987)  
         Note: 1. Nationwide survey of 310 secondary schools, 20 pupils  
                 randomly selected from each year-level. Questionnaires  
                 completed anonymously with teachers absent. Sample  
                 size 23359  
                 2. Regular smokers - daily in last week; all smokers -  
                 smoked in last week  
                 3. Numbers of cigarettes taken from chart

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- 15 Ref: Dept. Community Services & Health (1990) quoting National Health and Medical Research Council (1969)  
 Note: 1. Secondary school survey (26000 children age 9-16)  
 2. 1973 survey excluded Victoria and the NT  
 3. Regular smokers are those who had smoked more than 10 cigarettes in their lifetime and considered themselves to be smokers at the time of the survey. Consumption per smoker is amount smoked in past week  
 4. Interval estimation based on weekly consumption of 0, 1-4, 5-10, 11-20, 20+

16-17 Ref: WHO (1989)

Note: 1. 2 regional surveys forming part of WHO MONICA Project

	Region	Population size	Sample size	Participation rate %	Sample used		Date
					M	F	
16	Perth	307500	1535	85	861	921	05.83-11.83
17	Newcastle	136200	3658	67	1218	1241	05.83-12.83

(whole country 5.2mn)

Perth samples used includes age 25-34, all other figures are for age 35-64 only

2. Overall % relates only to age 35-64.  
 3. Regular cigarette smokers defined as those who smoked cigarettes every day. All smokers additionally includes those who smoked cigarettes occasionally, or lg. pipe tobacco per week, or 1 cigar per week.

18 Ref: Dept. of Community Services and Health (1990) quoting Australian Council for Health, Physical Education and Recreation (1985)

- Note: 1. 7000 school students aged 9-15, all States and Territories  
 2. Regular smokers are those smoking 1 or more times a week. The category UC\* and consumptions per smoker and per person are based on those who responded positively to the number of cigarettes smoked in the last 7 days  
 3. Interval estimation based on weekly consumption of 1-5, 6-10, 11-20, 21-30, 31+

#### General note

Consumption data for 1974 onwards, Ref: Department of Community Services and Health (1990). The figures were given by weight and have been converted assuming an average of 0.97 g per cigarette and 1.8 g per cigar (based on 1970-73 values in RP6). Figures for smokeless tobacco were not given, but have comprised less than 0.01% of consumption in recent decades. Figures relate to import clearances plus excise clearances.

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Estimates of HR cigarette consumption, for 1925-60 from Dean (1962) quoting British Tobacco Co (Australia) Ltd (GFT table 1.3).

These estimates of HR consumption by Dean show an increase from around 30% in 1925 to 95% in 1957 in the % of tobacco used in HR cigarettes rather than pipes (assuming 1 g per cigarette), then a slight fall to 93% in 1960.

Estimates of HR consumption were also given in RP6, successive editions (introduction):

	annual (mns)	per adult daily	% of tobacco used in HR
1966	3456	1.2	77
1970	3552	1.1	87
1973	3292	1.0	82

We have taken as our estimates 85% of tobacco consumption after 1960.

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McNair, Brown, Gibberd???

Morgan? (Roy Morgan Research Centre?)

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Table A AUSTRALIA

Consumption of Cigarettes and of All Tobacco  
Sales based data, including estimates of consumption of handrolled cigarettes

Year	Manufactured Cigarettes		Hand-rolled Cigarettes		Total Cigarettes		Total Tobacco	
	total millions annual	n per adult daily	total millions annual	n per adult daily	total millions annual	n per adult daily	total tonnes annual	grams per adult daily
1920	2204	1.7					7800	5.9
1921	2376	1.8					7400	5.5
1922	2267	1.6					8300	6.0
1923	2124	1.5					8100	5.7
1924	2286	1.6					8400	5.8
1925	2372	1.6	1726	1.2	4098	2.7	8700	5.8
1926	2542	1.7					9000	5.9
1927	2706	1.7					9200	5.9
1928	2851	1.8					9300	5.8
1929	2890	1.7					9500	5.7
1930	2783	1.7	3312	2.0	6095	3.6	9500	5.7
1931	2079	1.2					8300	4.8
1932	1858	1.1					8100	4.7
1933	2040	1.2					8400	4.8
1934	2072	1.2					8500	4.8
1935	2189	1.2	4224	2.4	6413	3.6	8700	4.9
1936	2417	1.3					9200	5.0
1937	2630	1.4					9600	5.2
1938	2869	1.5					10100	5.3
1939	3180	1.7					10500	5.5
1940	3384	1.7	5857	3.0	9241	4.8	10800	5.6
1941	3154	1.6					10200	5.2
1942	3585	1.8					11300	5.6
1943	3619	1.8					11700	5.8
1944	3627	1.8					11200	5.6
1945	3370	1.6	5858	2.9	9228	4.5	10300	5.0
1946	3618	1.8					11200	5.5
1947	4424	2.1					13200	6.3
1948	5575	2.7					14600	7.0
1949	6555	3.1					15500	7.3
1950	7665	3.5	8304	3.8	15969	7.3	17100	7.8
1951	9219	4.1					19200	8.6
1952	9420	4.1					19500	8.5
1953	8976	3.9					19400	8.4
1954	10487	4.5					20800	8.9
1955	11515	4.8	9120	3.8	20635	8.7	21300	8.9
1956	12616	5.2					21400	8.8
1957	13878	5.6	8208	3.3	22086	8.9	22500	9.1
1958	14699	5.8					23100	9.2
1959	15677	6.1					23700	9.2
1960	17101	6.5	6818	2.6	23919	9.1	25200	9.6
1961	18044	6.8	5865	2.2	23909	8.9	25900	9.7
1962	18824	6.9	5270	1.9	24094	8.8	26000	9.5
1963	19649	7.0	4845	1.7	24494	8.8	26300	9.4
1964	20572	7.2	4420	1.6	24992	8.8	26800	9.4
1965	21400	7.3	3995	1.4	25395	8.7	26900	9.2
1966	22644	7.6	3825	1.3	26469	8.9	27300	9.2
1967	22247	7.3	3570	1.2	25817	8.5	26500	8.7
1968	23667	7.6	3570	1.1	27237	8.8	27900	9.0
1969	24883	7.8	3570	1.1	28453	8.9	29000	9.1
1970	25938	8.0	3485	1.1	29423	9.1	29500	9.1
1971	26331	7.9	3400	1.0	29731	9.0	30100	9.1
1972	27321	8.1	3655	1.1	30976	9.2	30900	9.2
1973	28998	8.4	3400	1.0	32398	9.4	31900	9.3
1974	29230	8.3	3307	0.9	32537	9.3	32580	9.3
1975	29940	8.2	3179	0.9	33119	9.1	33110	9.1
1976	29240	7.9	3324	0.9	32564	8.8	32580	8.8
1977	29410	7.8	3239	0.9	32649	8.7	32700	8.7
1978	29400	7.7	2958	0.8	32358	8.4	32260	8.4
1979	28160	7.2	2797	0.7	30957	7.9	30850	7.9
1980	28950	7.3	2703	0.7	31653	7.9	31500	7.9
1981	29240	7.2	2261	0.6	31501	7.7	31250	7.6
1982	29910	7.2	2355	0.6	32265	7.7	32010	7.7
1983	28400	6.7	2321	0.5	30721	7.2	30480	7.2
1984	27760	6.4	2321	0.5	30081	7.0	29830	6.9
1985	27690	6.3	1947	0.4	29637	6.7	29320	6.7

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## Australia

Table B

Total sales of tobacco products, 1974-85

Year	Cigarettes mn kg	Cigarettes millions (assuming 0.97g per cig)	loose tobacco mn kgs	cigars mn kgs	Total weight mn kgs
1974	28.35	29.23	3.89	.34	32.58
1975	29.04	29.94	3.74	.33	33.11
1976	28.36	29.24	3.91	.31	32.58
1977	28.53	29.41	3.81	.36	32.70
1978	28.52	29.40	3.48	.26	32.26
1979	27.32	28.16	3.29	.24	30.85
1980	28.08	28.95	3.18	.24	31.50
1981	28.36	29.24	2.66	.23	31.25
1982	29.01	29.91	2.77	.23	32.01
1983	27.55	28.40	2.73	.20	30.48
1984	26.93	27.76	2.73	.17	29.83
1985	26.86	27.69	2.29	.17	29.32

Table C

% of tobacco consumed in different forms, by weight, 1974-85

year	%cigarettes	%loose tobacco	%cigars
1974	87.02	11.94	1.04
1975	87.71	11.30	1.00
1976	87.05	12.00	.95
1977	87.25	11.65	1.10
1978	88.41	10.79	.81
1979	88.56	10.66	.78
1980	89.14	10.10	.76
1981	90.75	8.51	.74
1982	90.63	8.65	.72
1983	90.39	8.96	.66
1984	90.28	9.15	.57
1985	91.61	7.81	.58

2501185819

## D Australia Male Percentage of smokers

frequency product source year	age group																				all ages			
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +		
45 1 U U						72																		
64 1 U U						58																		
68 15 UC R	21	26	30	37	41																			
68 15 UC A	23	28	31	38	43																			
69 1 U U						45																		
71 12 U U	21																							
72 5 TC R		20					50				52				50				38				44	
73 5 TC R		19					48				47				46				37				41	
73 15 U R	26	32	38	45	56																			
73 15 U A	27	33	38	45	56																			
74 2 UC U						36				49	44	46	44	39	43	43	35	32	28				41	
74 2 A U						37				52	49	52	48	45	47	46	40	36	31				45	
74 5 TC R		25					46				46				45				32					
75 5 TC R		23					47				46				46				31					
76 2 UC U						36				46	45	40	42	40	37	48	37	32	27				40	
76 5 TC R		23					48				44				42				32					
77 3 MC U						36																		
77 3 TC U						42				46				44				29				43		
77 5 TC R		21					47				41				42				30					
77 6 MC R			22					38				41				34				18				
77 10 UC R										43	34	34	31	33	34	33	26							
80 2 UC U						35				56	48	39	41	41	46	46	39	25	18				40	
80 11 TC U										43	30	36	40	41	32	32	25					35		
80 11 A U										44	36	39	45	45	35	36	30					39		
83 2 UC U						31				43	47	40	40	41	40	33	35	28	23				37	
83 2 A R						31				44	49	43	41	42	41	37	38	33	28				39	
83 7 UC U	6	15	16	23																				
83 11 TC U										39	32	32	29	31	33	31	25					32		
83 11 A U										41	33	36	30	33	35	34	30					35		
83 13 U U			39																					
83 16 UC R						36				35				33				30				33		
83 16 A A						38				37				37				34				36		
83 17 UC R										32				35				32				33		
83 17 A A										33				38				34				35		
84 7 UC U	3	12	16	26																				
84 13 U U			36																					
84 14 UC R	2	4	7	13	13	12																		
84 14 UC A	10	17	24	29	29	27																		
85 4 UC U						33																		
85 18 UC *	7	12	17	28																				
85 18 UC R	12	17	19	30																				

2501185820

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 Frequency: A all smokers (including occasional), R regular or daily smokers  
 All ages: relevant to ages used and as given in original source

## D Australia

## Female Percentage of smokers

frequency product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
45 1 U U					26																	
64 1 U U					28																	
68 15 UC R	4	7	12	15	23																	
68 15 UC A	6	9	13	16	23																	
69 1 U U					28																	
71 12 U U	5																					
72 5 TC R		14					37			36			35			20				29		
73 5 TC R		15					35			34			33			21				29		
73 15 U R	13	24	31	31	32																	
73 15 U A	13	25	32	32	32																	
74 2 UC U					29			38	37	30	29	27	33	37	25	16	10			29		
74 2 A U					29			38	37	30	29	27	33	37	25	16	10			29		
74 5 TC R		17					39			36			34			18						
75 5 TC R		20					36			35			31			18						
76 2 UC U					32			43	42	36	26	34	35	37	17	18	11			31		
76 5 TC R		21					40			35			29			18						
77 3 MC U						29																
77 3 TC U						37			33			27			12				29			
77 5 TC R		19					41			35			33			18						
77 6 MC R			17			37			33			27			12							
77 10 UC R								38	22	30	26	25	26	21	20							
80 2 UC U					37			40	39	35	33	28	19	31	26	23	10			31		
80 11 TC U								26	30	28	26	26	25	23	23						26	
80 11 A U								26	30	28	26	26	25	23	23						26	
83 2 UC U					43			43	34	31	28	28	37	25	28	22	8			30		
83 2 A R					43			43	34	31	28	28	37	25	28	22	8			30		
83 7 UC U	3	11	18	26																		
83 11 TC U								36	21	27	25	23	25	21	19						25	
83 11 A U								36	21	27	25	23	25	21	19						25	
83 13 U U			29																			
83 16 UC R								23	20			26			19							22
83 16 A A								25	21			26			19							23
83 17 UC R												28		22		18						23
83 17 A A												28		22		18						23
84 7 UC U	2	10	16	27																		
84 13 U U			29																			
84 14 UC R	1	3	8	12	14	13																
84 14 UC A	8	18	29	34	34	30																
85 4 UC U								27														
85 18 UC *	7	17	24	32																		
85 18 UC R	10	20	27	35																		

U unspecified \* refer to notes  
 Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 Frequency: A all smokers (including occasional), R regular or daily smokers  
 All ages: relevant to ages used and as given in original source

2501185821



product source year	age group																				all ages		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +	
68 15 UCI	0.9	1.1	1.5	1.7	2.0																		
72 5 TC		14					22			24			25			22					23		
72 5 TC		12					19			21			22			20					19		
73 5 TC		12					23			24			24			22							
73 5 TC		10					20			21			21			19							
73 15 UCI	1.2	1.7	2.0	2.3	2.2																		
74 2 UCI					18					20			21		21		18					19	
74 5 TC		15					22			24			25			22							
74 5 TC		13					20			21			22			19							
75 5 TC		16					22			24			25			23							
75 5 TC		14					19			21			22			20							
76 2 UCI					14				18		22		22		21		17					20	
76 5 TC		16					22			24			25			23					23		
76 5 TC		14					19			21			22			20							
77 3 MC							16			21				21				14					20
77 5 TC		16					20			24			25			23							
77 5 TC		14					18			21			22			20							
77 6 MC			15				16			20				21				17					
77 6 MC			12				17			21				21				18					
77 10 UC										18	22	21	20	25	23	23	21					21	
80 2 UC					16				17	20	22	25	24	24	23	19	16		21			22	
80 11 MC										18	18	21	28	21	21	21	23					21	
83 2 UC					18																		
83 11 MC										18	22	21	20	25	23	23	21					21	
84 14 UC	2.0	2.6	3.3	4.9	5.0	6.0																	
85 18 UCI	1.0	1.7	2.3	3.2																			

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
I indicates mean calculated from %s in intervals

All ages: relevant to ages used and as given in original source

2501185822

## E Australia Female Cigarettes per smoker per day

product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
68 15 UCI	0.6	0.7	0.9	1.1	1.4																	
72 5 TC		12				18			20			21			19					19		
72 5 TC		10				15			16			18			16					16		
73 5 TC		12				18			22			22			19							
73 5 TC		10				15			18			18			16							
73 15 UCI	0.8	1.2	1.5	1.7	2.1																	
74 2 UCI					15					15			17		17		14				16	
74 5 TC		15				18			20			21			19							
74 5 TC		13				15			16			18			16							
75 5 TC		14				19			21			22			21							
75 5 TC		11				16			17			18			17							
76 2 UCI					13				16		17		17		17		16				16	
76 5 TC		14				20			21			21			20					20		
76 5 TC		12				17			17			17			17							
77 3 MC						13			15				15				11				15	
77 5 TC		15				18			21			22			20							
77 5 TC		13				15			17			18			17							
77 6 MC			12			13			15				15				13					
77 6 MC			9.4			13			16				15				13					
77 10 UC									13	15	19	18	15	16	20	16						16
80 2 UC					14				16	18	20	20	21	20	19	17	19	13			18	
80 11 MC									13	19	13	18	16	15	15	13						15
83 2 UC					17																	
83 11 MC										13	15	19	18	15	16	19	16					16
84 14 UC	1.0	1.7	2.4	3.7	4.9	4.9																
85 18 UCI	1.4	1.7	2.6	3.0																		

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
I indicates mean calculated from %s in intervals

All ages: relevant to ages used and as given in original source

2501185823

## F Australia Male Cigarettes per person per day

product source year	age group																				all ages	% total sales	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +
68 15 UC	0.2	0.3	0.4	0.6	0.8																	***	
72 5 TC	2.8				11				13				12				8.4					90%T	
73 5 TC	2.2				11				11				11				8.1					84%T	
73 15 UC	0.3	0.6	0.8	1.0	0.1																	***	
74 2 UC	5.9				8.6		8.1	9.2	8.8	8.3	9.1	9.2	7.5	5.7		5.0				7.9	65%T		
74 5 TC	3.7				10				11				11				6.9					84%T	
75 5 TC	3.6				10				11				12				7.0					87%T	
76 2 UC	5.1				8.5		8.3	8.6	9.0	8.8	8.1	9.9	7.7	5.5		4.7				7.9	70%T		
76 5 TC	3.6				10				11				10				7.2					87%T	
77 3 MC	6.8				9.7				9.3				4.2					8.6	77%M				
77 6 MC	3.3				6.0				8.2				6.9				3.0					68%M	
77 5 TC	3.4				8.4				10				11				6.8					87%T	
77 10 UC	7.7				7.5	7.1	6.2	8.3	7.8	7.6	5.5												***
80 2 UC	5.7				9.5		9.6	8.5	10	9.9	11	11	7.6	3.9		3.8				8.8	83%T		
80 11 TC *	7.7				5.4	7.5	11	8.6	6.6	6.7	5.6											7.4	***
83 2 UC	6.8																					82%T	
83 11 TC *	7.1				7.1	6.7	5.8	7.8	7.5	7.7	5.3											6.8	***
84 14 UC	0.2	0.4	0.8	1.4	1.5	1.6																	***
85 18 UC	0.1	0.2	0.3	0.5																		***	

## F Australia Female Cigarettes per person per day

product source year	age group																					all ages	% total sales	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +			
68 15 UC	0.0	0.0	0.1	0.2	0.3																		***	
72 5 TC		1.6					6.5			7.0			7.4			3.8						90%T		
73 5 TC		1.9					6.4			7.4			7.3			3.9						84%T		
73 15 UC	0.1	0.3	0.5	0.5	0.6																		***	
74 2 UC					4.1				5.9	5.8	4.6	4.4	4.5	5.5	6.1	4.2	2.2		1.4			4.5	65%T	
74 5 TC		2.8					6.9			7.3			7.0			3.6						84%T		
75 5 TC		2.8					7.0			7.2			6.9			3.7						87%T		
76 2 UC					4.2				6.8	6.6	6.2	4.5	5.8	6.0	6.1	2.8	2.9		1.8			5.1	70%T	
76 5 TC		3.0					7.8			7.1			6.1			3.6						87%T		
77 3 MC							4.9			5.0			4.0			1.3					4.3	77%M		
77 6 MC				1.9				4.9			5.0			4.0			1.5						68%M	
77 5 TC		3.0					7.5			7.4			7.3			3.7						87%T		
77 10 UC										4.9	3.3	5.7	4.7	3.8	4.2	4.2	3.2							***
80 2 UC					5.0				6.5	6.9	6.9	6.7	5.7	3.8	5.9	4.4	4.3		1.3			5.6	83%T	
80 11 TC *										3.3	5.7	3.6	4.6	4.2	3.8	3.5	3.0						3.9	***
83 2 UC					5.2																		82%T	
83 11 TC *										4.6	3.1	5.1	4.4	3.4	4.0	4.0	3.0						4.0	***
84 14 UC	0.1	0.3	0.7	1.3	1.4	1.3																	***	
85 18 UC	0.1	0.3	0.6	0.9																		***		

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

All ages: relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

2501185824

## G Australia Male Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales			
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +		
68 15 UC	0.2	0.3	0.4	0.6	0.8																	***			
72 5 TC	3.1				12				14				14				9.3					90%T			
73 5 TC	2.6				13				13				13				9.6					84%T			
73 15 UC	0.3	0.6	0.8	1.0	0.1																	***			
74 2 UC					9.1				13	12	14	14	13	14	14	12	8.8		7.7		12	65%T			
74 5 TC	4.4				12				13				13				8.2					84%T			
75 5 TC	4.1				12				13				13				8.0					87%T			
76 2 UC					7.2				12	12	12	13	12	11	14	11	7.8		6.7		11	70%T			
76 5 TC	4.1				12				12				12				8.2					87%T			
77 3 MC					8.8				13				12				5.4				11	77%M			
77 6 MC				4.8				8.8				12				10				4.4			68%M		
77 5 TC				3.9				9.7				12				12				7.8					87%T
77 10 UC										7.7	7.5	7.1	6.2	8.3	7.8	7.6	5.5						***		
80 2 UC					6.8				11	12	10	12	12	13	13	9.1	4.7		4.6		11	83%T			
80 11 TC *										7.7	5.4	7.5	11	8.6	6.6	6.7	5.6					7.4	***		
83 2 UC					8.3																	82%T			
83 11 TC *										7.1	7.1	6.7	5.8	7.8	7.5	7.7	5.3					6.8	***		
84 14 UC	0.2	0.4	0.8	1.4	1.5	1.6																	***		
85 18 UC	0.1	0.2	0.3	0.5																	***				

## G Australia Female Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +	
68 15 UC	0.0	0.0	0.1	0.2	0.3																	***		
72 5 TC		1.8				7.2				7.7				8.2				4.2					90%T	
73 5 TC		2.3				7.6				8.8				8.7				4.6					84%T	
73 15 UC	0.1	0.3	0.5	0.5	0.6																	***		
74 2 UC					6.3				9.1	8.9	7.1	6.8	6.9	8.5	9.4	6.5	3.4		2.2		6.9	65%T		
74 5 TC		3.3				8.2				8.7				8.4				4.3					84%T	
75 5 TC		3.2				8.0				8.3				7.9				4.3					87%T	
76 2 UC					6.0				9.6	9.4	8.8	6.4	8.2	8.5	8.7	4.0	4.1		2.6		7.2	70%T		
76 5 TC		3.4				8.9				8.1				7.0				4.1					87%T	
77 3 MC					6.3				6.5				5.2				1.7				5.6	77%M		
77 6 MC			2.8				7.2				7.3				5.8				2.2					68%M
77 5 TC		3.5				8.6				8.5				8.4				4.3					87%T	
77 10 UC										4.9	3.3	5.7	4.7	3.8	4.2	4.2	3.2						***	
80 2 UC					6.0				7.8	8.3	8.3	8.0	6.8	4.6	7.1	5.3	5.2		1.6		6.7	83%T		
80 11 TC *										3.3	5.7	3.6	4.6	4.2	3.8	3.5	3.0					3.9	***	
83 2 UC					6.4																	82%T		
83 11 TC *										4.6	3.1	5.1	4.4	3.4	4.0	4.0	3.0					4.0	***	
84 14 UC	0.1	0.3	0.7	1.3	1.4	1.3																	***	
85 18 UC	0.1	0.3	0.6	0.9																	***			

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

2501185825

Table H AUSTRALIA

year	source	% SMOKERS				CIGARETTES PER MAN & PER WOMAN							
		product /freq code	man cigs m    w	tot cigs m    w	all prods m    w	product code	ORIGINAL		product adjust factor	ADJUSTED to MAN CIGS		ADJUSTED to TOT CIGS	
							per man	per woman		per man	per woman	per man	per woman
40													
41													
42													
43													
44													
45	1	U/U			71   26								
46													
47													
48													
49													
50													
51													
52													
53													
54													
55													
56													
57													
58													
59													
60													
61													
62													
63													
64	1	U/U			57   28								
65													
66													
67													
68													
69	1	U/U			44   28								
70													
71													
72	5	TC/R		44   29		TCI	10.7	5.9	t   90			11.9	6.5
73	5	TC/R		41   29		TCI	9.9	6.0	T   84			11.8	7.1
74	2	UC/U		40   28		UCI	7.7	4.4	t   65			11.8	6.7
	5	TC/R		40   29		TCI	9.5	6.0	t   84			11.4	7.2
	2	A/U			44   28								
75	5	TC/R		40   29		TCI	9.8	6.0	t   87			11.3	6.9
76	2	UC/U		39   30		UCI	7.5	4.9	t   70			10.7	6.9
	5	TC/R		39   29		TCI	9.5	5.9	t   87			10.8	6.8
77	3	MC/U	35   29			MC	8.0	4.0	M   77	10.4	5.2		
	6	MC/R	34   27			MC	6.6	4.0	M   68	9.7	5.9		
	5	TC/R		38   29		TCI	8.8	6.2	t   87			10.1	7.2
	3	TC/U		41   29					t			( 11.2	6.2)
78													
79													
80	2	UC/U		40   30		UC	8.1	5.2	t   83			9.7	6.2
81													
82													
83	2	UC/U		37   30		UC	6.7	5.1	t   82			8.2	6.3
	2	A/R			39   30								
	13	U/U			39   29								
84	13	U/U			36   29								
85	4	UC/U		33   27					t			( 8.1	5.4)

2501185826

Austria

Source  
number

- 1      Ref:      Friedl (1980) tables 1, 3 and 6  
         GFT table no: 2.1, 2.2, 3.1  
         Note: 1. Micro-censuses in 1972 and 1979  
              2. Interval estimation based on -10,11-20,21-40,41+.  
              3. Guesstimates for age 15, % smokers A and UC, male:20;  
                  female:10. Cigs per person, male:1.0; female:0.5.
- 2      Ref:      Gredler et al (1981) p.77  
         GFT table no: 2.3, 3.2  
         Note: 1. Survey of 2002 persons on behalf of the Austrian Heart  
                  Foundation  
              2. Interval estimation based on -10,11-20,21-40,41+.  
              3. Guesstimates for age 15, % smokers, male:20; female:10.  
                  Cigs per person, male: 1.0; female:0.5  
                  Guesstimates for age 70+, % smokers, male: 30; 4 cigs  
                  per person, male: 3.0, female 0.1.
- 3      Ref:      Kunze et al (1980)  
         Note: 1. 99% of smokers smoked cigarettes  
              2. Lowest age boundary unknown
- 4      Ref:      Gredler and Kunze (1982)  
         Note: 1. Part of a survey assessing public awareness and  
                  attitudes to a national anti-smoking campaign  
              2. Representative sample of 2004 people  
              3. Interval estimation based on -10,11-20,21+  
              4. Guesstimates for age 15, % smokers, male:20; female:10.  
                  Cigs per person, male and female:1.0

General note

Data for sales from 1974 onwards, Ref:      Austria Tabak.

Since the weight of cigars was unknown, we have converted from numbers to weights on the assumption of 5.5g per cigar, based on the average value in RP6 for 1970-73.

We have estimated HR consumption as using all sales of cigarette tobacco at 1g per cigarette. This may be an overestimate; in neighbouring Germany, where sales of cigarette papers are also known, we have used 70% of fine-cut tobacco as estimate of HR consumption.

2501185827

Austria

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2501185828

Table A AUSTRIA

Consumption of Cigarettes and of All Tobacco  
Sales based data, including estimates of consumption of handrolled cigarettes

Year	Manufactured Cigarettes		Hand-rolled Cigarettes		Total Cigarettes		Total Tobacco	
	total millions annual	n per adult daily	total millions annual	n per adult daily	total millions annual	n per adult daily	total tonnes annual	grams per adult daily
1923	2935	1.6	1700	1.0	4635	2.6	9900	5.5
1924	3741	2.1	1400	0.8	5141	2.9	10600	5.9
1925	3973	2.2	1400	0.8	5373	3.0	10700	6.0
1926	4395	2.4	1300	0.7	5695	3.1	11000	6.0
1927	4512	2.5	1400	0.8	5912	3.2	10900	6.0
1928	4800	2.6	1500	0.8	6300	3.4	11100	6.0
1929	4925	2.6	1500	0.8	6425	3.5	11000	5.9
1930	4809	2.6	1600	0.9	6409	3.4	10800	5.8
1931	4940	2.7	1200	0.6	6140	3.3	10400	5.6
1932	5512	3.0	730	0.4	6242	3.4	10000	5.4
1933	5102	2.7	640	0.3	5742	3.1	9500	5.1
1934	4658	2.5	730	0.4	5388	2.8	9300	4.9
1935	4452	2.3	860	0.5	5312	2.8	9000	4.7
1936	4332	2.2	1090	0.6	5422	2.8	9200	4.8
1937	4211	2.2	1090	0.6	5301	2.7	9000	4.7
1938	5004	2.6	1180	0.6	6184	3.2	9800	5.1
1939	6395	3.3	1180	0.6	7575	3.9	11300	5.8
1940	7810	4.0	1410	0.7	9220	4.8	13300	6.9
1941	9249	4.8	1680	0.9	10929	5.6	15600	8.1
1942	8561	4.4	1540	0.8	10101	5.2	14400	7.4
1943	8168	4.2	1860	1.0	10028	5.2	13300	6.9
1944	6510	3.4	1450	0.7	7960	4.1	10500	5.4
1945	2554	1.3	540	0.3	3094	1.6	3700	1.9
1946	2244	1.1	50	0.0	2294	1.1	2800	1.4
1947	3136	1.6	0	0.0	3136	1.6	3400	1.7
1948	3923	2.0	0	0.0	3923	2.0	4700	2.4
1949	4781	2.4	0	0.0	4781	2.4	6500	3.3
1950	5953	3.0	90	0.0	6043	3.1	7800	4.0
1951	6609	3.4	140	0.1	6749	3.5	8600	4.4
1952	6913	3.6	180	0.1	7093	3.6	8700	4.5
1953	7132	3.7	180	0.1	7312	3.8	8800	4.5
1954	6329	3.2	180	0.1	6509	3.3	8000	4.1
1955	7144	3.6	180	0.1	7324	3.7	8800	4.5
1956	7918	4.0	180	0.1	8098	4.1	9500	4.8
1957	8349	4.2	180	0.1	8529	4.3	9800	4.9
1958	8899	4.5	180	0.1	9079	4.6	10200	5.1
1959	9295	4.6	180	0.1	9475	4.7	10600	5.3
1960	9451	4.7	180	0.1	9631	4.8	10800	5.4
1961	9284	4.6	180	0.1	9464	4.7	10900	5.4
1962	9719	4.8	180	0.1	9899	4.9	11200	5.6
1963	10101	5.0	180	0.1	10281	5.1	11400	5.6
1964	10436	5.1	180	0.1	10616	5.2	11700	5.8
1965	10827	5.3	180	0.1	11007	5.4	12100	6.0
1966	11507	5.7	180	0.1	11687	5.7	12800	6.3
1967	11771	5.8	180	0.1	11951	5.9	13100	6.4
1968	11982	5.9	180	0.1	12162	6.0	13200	6.5
1969	12379	6.1	140	0.1	12519	6.2	13500	6.6
1970	13037	6.4	126	0.1	13163	6.5	14100	6.9
1971	13603	6.6	110	0.1	13713	6.7	14600	7.1
1972	13451	6.5	88	0.0	13539	6.6	14300	6.9
1973	14499	7.0	78	0.0	14577	7.0	15300	7.4
1974	14419	6.9	67	0.0	14486	6.9	15135	7.2
1975	13975	6.6	60	0.0	14035	6.7	14628	6.9
1976	14415	6.8	54	0.0	14469	6.8	15038	7.1
1977	14705	6.9	52	0.0	14757	6.9	15300	7.2
1978	15127	7.0	46	0.0	15173	7.1	15687	7.3
1979	15670	7.2	45	0.0	15715	7.3	16215	7.5
1980	15515	7.1	52	0.0	15567	7.1	16053	7.4
1981	15721	7.2	65	0.0	15786	7.2	16259	7.4
1982	15540	7.1	96	0.0	15636	7.1	16082	7.3
1983	15878	7.1	115	0.1	15993	7.2	16411	7.4
1984	15550	6.9	136	0.1	15686	7.0	16085	7.2
1985	15645	6.9	135	0.1	15780	7.0	16158	7.2

2501185829



## Austria

Table B

Total sales of tobacco products, 1974-1985

Year	Cigarettes millions =tons	Cigars millions	Cigars tons (assuming 5.5g per cigar)	Cigarette Tobacco tons	Pipe tons	Chewing Tobacco tons	Snuff tons	Total tons
1974	14,419	63.3	348	67.22	285.9	9.3	5.5	15,135
1975	13,975	58.5	322	59.77	256.9	8.8	5.1	14,628
1976	14,415	57.1	314	53.81	240.5	8.5	5.9	15,038
1977	14,705	54.4	299	52.16	230.8	6.1	6.6	15,300
1978	15,127	51.5	283	45.58	223.0	2.1	6.2	15,687
1979	15,670	51.0	281	45.00	210.8	1.8	6.2	16,215
1980	15,515	49.6	273	52.22	204.3	1.5	7.1	16,053
1981	15,721	47.6	262	65.43	201.7	1.3	7.8	16,259
1982	15,540	43.0	237	95.89	200.1	1.2	8.3	16,082
1983	15,878	40.1	221	114.93	188.4	1.1	7.8	16,411
1984	15,550	38.2	210	136.19	180.3	1.1	7.5	16,085
1985	15,645	36.7	202	134.68	167.9	.9	7.2	16,158

Table C

% of tobacco consumed in different forms, by weight, 1974-85

Year	%cigarettes	%cigars	%fine cut tobacco	%pipe tobacco	%chewing tobacco	%snuff
1974	95.27	2.30	.44	1.89	.06	.04
1975	95.54	2.20	.41	1.76	.06	.03
1976	95.86	2.09	.36	1.60	.06	.04
1977	96.11	1.95	.34	1.51	.04	.04
1978	96.43	1.80	.29	1.42	.01	.04
1979	96.64	1.73	.28	1.30	.01	.04
1980	96.65	1.70	.33	1.27	.01	.04
1981	96.69	1.61	.40	1.24	.01	.05
1982	96.63	1.47	.60	1.24	.01	.05
1983	96.75	1.35	.70	1.15	.01	.05
1984	96.67	1.31	.85	1.12	.01	.05
1985	96.83	1.25	.83	1.04	.01	.04

2501185830

## D Austria Male Percentage of smokers

frequency product source year	age group																					all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +	
72 1 UC U					36																	
72 1 A R					38																	
72 1 A A					43					56	49	44	49			46		42				45
77 3 A R				37							35				32					35		
77 3 A A				51							46				39					45		
78 2 UC R					41					36				39		36						38
78 2 UC A					60					42				44		39						47
79 1 UC U					34																	
79 1 A R					39																	
79 1 A A					42					53	50	46	40			41		31				41
81 4 UC U					39							33				29					33	

## D Austria Female Percentage of smokers

frequency product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
72 1 UC U					10																	
72 1 A R					9																	
72 1 A A					21					28	20	15	14			12		5				13
77 3 A R				24						14				7							14	
77 3 A A				40						21				9							22	
78 2 UC R					16					16				12		6						14
78 2 UC A					31					26				17		8						23
79 1 UC U					13																	
79 1 A R					14																	
79 1 A A					27					32	34	22	15			14		7				17
81 4 UC U					31					24				15							22	

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

2501185831

## E Austria Male Cigarettes per smoker per day

product source year	age group																		all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69		70 - 74
72 1 UCI					18															
78 2 UCI					22															
79 1 UCI					21															
81 4 UCI					19					23				21					21	

## E Austria Female Cigarettes per smoker per day

product source year	age group																		all ages			
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69		70 - 74	75 - 79	80 +
72 1 UCI					13																	
78 2 UCI					17																	
79 1 UCI					15																	
81 4 UCI					13					15				15					14			

Product: U unspecified \* refer to notes  
 MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 I indicates mean calculated from %s in intervals  
 All ages: relevant to ages used and as given in original source

2501185832

## F Austria Male Cigarettes per person per day

product source year	age group																				all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		
72 1 UC					6.6																	56%
78 2 UC					8.3																	64%
79 1 UC					7.1																	59%
81 4 UC					7.6						7.5				6.0						6.9	66%

## F Austria Female Cigarettes per person per day

product source year	age group																				all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		
72 1 UC					1.3																	56%T
78 2 UC					2.3																	64%T
79 1 UC					2.0																	59%T
81 4 UC					3.9					3.5					2.2					3.1	66%T	

2501185833

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
All ages: relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

## G Austria Male Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		
72 1 UC					12																	56%T
78 2 UC					13																	64%T
79 1 UC					12																	59%T
81 4 UC					11						11				9.0						10	66%T

## G Austria Female Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		
72 1 UC					2.3																	56%
78 2 UC					3.6																	64%
79 1 UC					3.4																	59%
81 4 UC					5.9					5.3					3.3					4.7	66%	

2501185834

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

Table H AUSTRIA

year	source	% SMOKERS					CIGARETTES PER MAN & PER WOMAN									
		product /freq code	man cigs		tot cigs		all prods		product code	ORIGINAL		product adjust factor	ADJUSTED to MAN CIGS		ADJUSTED to TOT CIGS	
			m	w	m	w	m	w		per man	per woman		per man	per woman	per man	per woman
40																
41																
42																
43																
44																
45																
46																
47																
48																
49																
50																
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62																
63																
64																
65																
66																
67																
68																
69																
70																
71																
72	1	UC/U			36	10			UCI	6.5	1.3	T	56		11.6	2.3
	1	A/R					38	9								
	1	A/A					45	14								
73																
74																
75																
76																
77	3	A/R					35	14								
	3	A/A					45	21								
78	2	UC/R			37	12			UCI	7.6	1.9	T	64		11.8	3.0
	2	UC/A			46	20										
79	1	UC/U			34	13			UCI	7.0	2.0	T	59		11.8	3.4
	1	A/R					39	14								
	1	A/A					41	18								
80																
81	4	UC/U			33	22			UCI	6.9	3.0	T	66		10.3	4.5
82																
83																
84																
85																

2501185835

Belgium

Source  
number

- 1      Ref:      CRIOC (1981) and private communication  
         GFT table no: 2.1-2.3, 3  
         Note: 1. Survey in 1980 by INUSOP for CRIOC/OIVO  
              2. Based on a quota sample of 1,130 persons,  
              representative of the Flemish population (excluding  
              Brussels-capital) aged 15+, carried out in March/May  
              1980  
              3. For women, the calculation of cigarettes per person is  
              based on the % smokers of any product, since the %  
              smokers of cigarettes is not given by age. Since  
              cigarette smokers accounted for 20% of 21% total  
              smokers, this is likely to have little effect.
- 3      Ref:      Programme National de recherche en sciences sociales,  
                  Service de Programmation de la Politique scientifique,  
                  Bruxelles, Belgique.  
         GFT table no: 2.3  
         Note: 1. Based on a sample of 1,745 persons representative of  
              the Flemish population (excluding Brussels-capital)  
              2. Female data for age 45-64 missing due to apparent  
              misprint in original report
- 5      Ref:      Graffar and Decrucq (1976) pp.25-26 (From Todd (1986)  
                  p.73)  
         GFT table no: 5  
         Note: 1. A "regular smoker" was defined as a person who smoked  
              one cigarette, one cigar or one cigarillo, or one  
              pipe at least once a day. 97% of the smokers in the  
              sample smoked cigarettes.  
              2. Based on a sample of 3,037 young persons  
              3. Lowest age group is 11-12
- 7      Ref:      Todd (1986) p.64  
         GFT table no: 4  
         Note: 1. Estimated by Todd from the available data
- 8      Ref:      Merzdorf (1982) quoting Readers Digest (1963)  
         Note:    Guesstimates for age 15-20, % smokers, male: 40,  
                  female: 15.
- 9      Ref:      Merzdorf (1982) quoting Kornitzer et al (1978)    )  
         Note: 1. 1965 figures relate to 1964-65, Brussels        )  
              2. 1972 - bank employees                                )omit?  
              3. 1976 - workers. See also Source 16                )
- 10     Ref:      Merzdorf (1982) quoting Joossens (1978)  
         Note:    1973 - Flemings

2501185836

- 11 Ref: Merzdorf (1982) quoting Vuylsteek et al. (unpublished)  
Note: Rural population, Flanders, age 11+
- 12 Ref: Merzdorf (1982) quoting E.I.U. (1977)
- 13 Ref: Merzdorf (1982), private communication  
Note: Flanders
- 14 Ref: Merzdorf (1982) quoting Vuylsteek (1979)  
Note: Flemish recruits
- 15 Ref: Vuylsteek et al (1985)  
Note: Average of 2 random samples of Flemish and French speaking military recruits, N=2008. The overall age range was 17-30, but predominantly 18-19
- 16 Ref: Kornitzer et al (1980)  
Note: Workers in 30 Belgian industries, control factories in multifactorial prevention trial. Years unknown
- 17 Ref: Adriaanse et al (1986) quoting Joosens (1986)  
Note: National study, age group unknown
- 18 Ref: WHO (1978) quoting Free University of Brussels
- 19 Ref: ITL Market Research Dept.  
Note: 1. Confidential  
2. Nationally representative consumer survey, sample size 2000
- 20 Ref: Masironi and Roy (1981)
- 21-23 Ref: WHO (1989)  
Note: 1. 3 regional surveys forming part of WHO MONICA Project

Region	Population size	Sample size	Participation rate%	Sample used M F	Date
21 Ghent	85500	1437	72	703 651	02.85-06.87
22 Charleroi	78500	1391	59	489 565	03.85-08.87
23 Luxembourg Province	71800	3614	54	990 958	05.83-01.85

(whole country 3.6mn)

Ghent and Charleroi sample used includes age 25-34, all other figures are for age 35-64 only.

2. Overall % relates only to age 35-64.
3. Regular cigarette smokers defined as those who smoked cigarettes every day. All smokers additionally includes those who smoked cigarettes occasionally, or lg. pipe tobacco per week, or 1 cigar per week.

2501185837



- 24 Ref: Geizerova and Masironi (1987)  
Note: No original reference given

General note

Data for consumption for 1974 onwards, Ref: Institut National de Statistique, Service des renseignements et de la documentation générale, Bruxelles. The figures used are based on excise bandlettes and stamps issued. Consumptions of cigarettes, cigars and cigarillos by weight were obtained from numbers by using conversion factors of 1g per cigarette, 4.8g per cigar and 2.5g per cigarillo. These factors were the same as used in RP6. Figures for tobacco reserved for use by growers, and for moist chewing tobacco (negligible, to 1970 only) have been omitted.

Consumption of HR cigarettes was estimated on the basis of 90% of smoking/chewing tobacco, at 1g per cigarette. This is the same basis as used by Merzdorf et al (1982), although his figures for taxed sales of smoking tobacco are slightly different.

2501185838

Belgium

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Programme National de Recherche en Sciences Sociales?

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Table A BELGIUM

Consumption of Cigarettes and of All Tobacco  
Sales based data, including estimates of consumption of handrolled cigarettes

Year	Manufactured Cigarettes		Hand-rolled Cigarettes		Total Cigarettes		Total Tobacco	
	total millions annual	n per adult daily	total millions annual	n per adult daily	total millions annual	n per adult daily	total tonnes annual	grams per adult daily
1921	3421	1.6					16600	8.0
1922	3546	1.7					18100	8.7
1923	3775	1.8					18900	8.9
1924	4155	2.0					19200	9.1
1925	4207	2.0					19200	8.9
1926	4457	2.1					19500	9.1
1927	4829	2.2					20000	9.1
1928	5540	2.5					20400	9.2
1929	6108	2.7					20900	9.4
1930	6799	3.0					21500	9.5
1931	6838	3.0					21700	9.6
1932	5982	2.6					20600	9.0
1933	5525	2.4					19900	8.7
1934	4981	2.2					19700	8.6
1935	4955	2.2					20000	8.7
1936	5116	2.2					20900	8.9
1937	5258	2.2					20500	8.6
1938	5108	2.2					20800	8.8
1939	5128	2.2					21700	9.1
1940	4150	1.7					17600	7.4
1941	3723	1.6					15600	6.6
1942	3284	1.4					13100	5.5
1943	1889	0.8					7300	3.1
1944	2070	0.9					6800	2.9
1945	2563	1.1					9800	4.1
1946	6386	2.7					17900	7.4
1947	8549	3.5					19500	8.0
1948	8901	3.6					19800	8.0
1949	8414	3.4					19500	7.9
1950	8399	3.4	8730	3.5	17129	6.9	19200	7.7
1951	8197	3.3	8730	3.5	16927	6.8	19000	7.6
1952	8115	3.2	9450	3.8	17565	7.0	20100	8.0
1953	8217	3.3	9000	3.6	17217	6.8	20000	7.9
1954	8263	3.3	8820	3.5	17083	6.8	20100	8.0
1955	8652	3.4	8550	3.4	17202	6.8	20300	8.0
1956	9132	3.6	8370	3.3	17502	6.9	20700	8.2
1957	9859	3.9	8190	3.2	18049	7.1	21300	8.4
1958	10480	4.1	7920	3.1	18400	7.2	21600	8.5
1959	10308	4.0	7920	3.1	18228	7.2	21600	8.5
1960	10973	4.3	7560	3.0	18533	7.3	22100	8.7
1961	11253	4.4	7380	2.9	18633	7.3	22300	8.8
1962	11868	4.6	7179	2.8	19047	7.4	23000	9.0
1963	12325	4.8	6751	2.6	19076	7.4	22900	8.9
1964	12791	4.9	6557	2.5	19348	7.4	23600	9.1
1965	14083	5.4	6317	2.4	20400	7.8	24700	9.4
1966	15147	5.7	5906	2.2	21053	8.0	25100	9.5
1967	15448	5.8	6006	2.3	21454	8.1	25400	9.6
1968	15814	5.9	5819	2.2	21633	8.1	25800	9.7
1969	16633	6.2	5330	2.0	21963	8.2	26000	9.7
1970	17632	6.6	4766	1.8	22398	8.3	26200	9.8
1971	18334	6.8	4628	1.7	22962	8.5	27000	10.0
1972	19165	7.0	4358	1.6	23523	8.6	27700	10.2
1973	20236	7.4	4133	1.5	24369	8.9	28500	10.4
1974	20179	7.3	4125	1.5	24304	8.8	28095	10.2
1975	18868	6.8	4135	1.5	23003	8.3	26900	9.7
1976	18370	6.6	4386	1.6	22756	8.1	26654	9.5
1977	17673	6.3	4487	1.6	22160	7.9	25894	9.2
1978	15590	5.5	4301	1.5	19891	7.0	23522	8.3
1979	16878	5.9	4093	1.4	20971	7.4	24301	8.5
1980	16858	5.9	3979	1.4	20837	7.3	24140	8.4
1981	16657	5.8	4313	1.5	20970	7.3	23915	8.3
1982	17927	6.2	5438	1.9	23365	8.1	26320	9.1
1983	17033	5.9	6023	2.1	23056	8.0	26093	9.0
1984	17178	5.9	6436	2.2	23614	8.1	26646	9.2
1985	15897	5.4	6341	2.2	22238	7.6	25208	8.6

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## Belgium

Table B

Total sales of tobacco products, 1974-85

Year	Cigarettes thousands	Cigarettes tons (assuming 1g per cig)	Cigars thousands	Cigars tons (assuming 4.8g per cgr)	Cigarillos thousands	Cigarillos tons (assuming 2.5g per cgr)	Smoking & Chewing tobacco & snuff tons	Total Weight tons
1974	20,179,240	20,179	281,240	1,350	793,395	1,983	4,583	28,095
1975	18,868,268	18,868	272,264	1,307	852,359	2,131	4,594	26,900
1976	18,369,589	18,370	255,728	1,227	873,648	2,184	4,873	26,654
1977	17,672,744	17,673	242,855	1,166	828,179	2,070	4,985	25,894
1978	15,589,625	15,590	223,781	1,074	831,539	2,079	4,779	23,522
1979	16,878,096	16,878	204,483	982	757,009	1,893	4,548	24,301
1980	16,857,827	16,858	195,295	937	769,456	1,924	4,421	24,140
1981	16,657,321	16,657	153,437	736	691,873	1,730	4,792	23,915
1982	17,926,592	17,927	139,421	669	672,744	1,682	6,042	26,320
1983	17,033,269	17,033	131,896	633	693,984	1,735	6,692	26,093
1984	17,177,756	17,178	129,269	620	678,643	1,697	7,151	26,646
1985	15,896,790	15,897	115,513	554	684,364	1,711	7,046	25,208

Table C

% of tobacco consumed in different forms, by weight, 1974-85

Year	%cigarettes	%cigars	%cigarillos	% smoking & chewing tob & snuff
1974	71.82	4.81	7.06	16.31
1975	70.14	4.86	7.92	17.08
1976	68.92	4.60	8.19	18.28
1977	68.25	4.50	7.99	19.25
1978	66.28	4.57	8.84	20.32
1979	69.45	4.04	7.79	18.72
1980	69.83	3.88	7.97	18.31
1981	69.65	3.08	7.23	20.04
1982	68.11	2.54	6.39	22.96
1983	65.28	2.43	6.65	25.65
1984	64.47	2.33	6.37	26.84
1985	63.06	2.20	6.79	27.95

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frequency product source year	age group																				all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	
63 8 UC U									66												
65 9 UC U													56								
72 10 MC U					51																
72 9 UC U															65						
73 5 A R	1	10	8	24	29	35															
73 10 A U			40																		
73 11 UC U	56																				
73 19 UC U					80					79		73		63		42					61
74 10 MC U					48																
74 18 U U	11	30		50			65														
75 20 U U	24			44			82														
76 3 A U					53					56					65				55		58
76 12 MC U					49					55	56	52	48	32	20				44		
76 12 A U					62																
76 13 A U					58																
76 9 A U													76								
76 16 UC U													63								
76 14 A U							59														
77 10 MC U					40																
77 10 MC U					48																
78 16 UC U													55								
80 1 MC U					35																
80 1 TC U					46					54					40				27		44
80 1 A U					51					59					53				41		53
80 13 A U					53																
80 15 U R							50														
82 24 U U						25															
83 17 U U					47																
84 23 UC R													44	40	45					43	
84 23 A A													53	49	51					51	
85 21 UC R											45	47	42	38					43		
85 21 A A											51	56	51	47					52		
85 22 UC R											54	55	50	44					50		
85 22 A A											58	59	54	53					56		

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

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frequency, product, source year	age group																					all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +	
63 8 UC U									15													
65 9 UC U																						
72 10 MC U				24																		
72 9 UC U																						
73 5 A R	1	5	10	16	26	28																
73 10 A U			37																			
73 11 UC U	8																					
73 19 UC U				60					60		34		35		23					39		
74 10 MC U				26																		
74 18 U U																						
75 20 U U	17			45			67															
76 3 A U				34					29								3			22		
76 12 MC U				39					48	43		25		24		13		5			25	
76 12 A U				26																		
76 13 A U				22																		
76 9 A U																						
76 16 UC U																						
76 14 A U																						
77 10 MC U				21																		
77 10 MC U				40																		
78 16 UC U																						
80 1 MC U				21																		
80 1 TC U				21																		
80 1 A U				33					29					10					2			21
80 13 A U				21																		
80 15 U R																						
82 24 U U						32																
83 17 U U				28																		
84 23 UC R											25		16		9							18
84 23 A A											26		16		9							18
85 21 UC R										35		34		22		15						25
85 21 A A										35		35		22		15						25
85 22 UC R										42		26		22		22						24
85 22 A A										42		26		23		22						24

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

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E Belgium

Male Cigarettes per smoker per day

product source year	age group																				all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	
76 16 UC													20								
78 16 UC													21								
80 1 MC					17					20				20				19			19
80 1 TC					19					20				18				17			19

E Belgium

Female Cigarettes per smoker per day

product source year	age group																				all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	
76 16 UC																					
78 16 UC																					
80 1 MC					13				15				16				12				14
80 1 TC					13				13				17				15				14

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Product: U unspecified \* refer to notes  
 MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 I indicates mean calculated from %s in intervals  
 All ages: relevant to ages used and as given in original source



## F Belgium Male Cigarettes per person per day

product source year	age group																			all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74		
76 16 UC													13								***
78 16 UC													11								***
80 1 TC					8.6					11			7.2			4.5			8.3	74%T	
80 7 MC					8.4																--- M

## F Belgium Female Cigarettes per person per day

product source year	age group																				all ages	% total sales	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +
76 16 UC																						***	
78 16 UC																						***	
80 1 TC *					4.2					3.8					1.7					0.3		2.8	74%T
80 7 MC					3.6																	--- M	

U unspecified \* refer to notes  
 Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 All ages: relevant to ages used and as given in original source  
 % total sales: % of national sales of M manufactured or T total cigarettes implied by survey  
 m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown  
 \*\*\* cannot be calculated --- adjusted by original author

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## G Belgium Male Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		
76 16 UC													13									***
78 16 UC													11									***
80 1 TC				12						15				9.8				6.1			11	74%T
80 7 MC				8.4																		--- M

## G Belgium Female Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		
76 16 UC																						***
78 16 UC																						***
80 1 TC *				5.7					5.1				2.3				0.4				3.8	74%T
80 7 MC				3.6																		--- M

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U unspecified \* refer to notes  
 Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 All ages: relevant to ages used and as given in original source  
 % total sales: % of national sales of M manufactured or T total cigarettes implied by survey  
 m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown  
 \*\*\* cannot be calculated --- adjusted by original author

Table H BELGIUM

year	source	% SMOKERS				product code	ORIGINAL		CIGARETTES PER MAN & PER WOMAN		ADJUSTED		ADJUSTED	
		product /freq code	man cigs m w	tot cigs m w	all prods m w		per man	per woman	product adjust factor	to MAN per man	CIGS per woman	to TOT per man	CIGS per woman	
40														
41														
42														
43														
44														
45														
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														
56														
57														
58														
59														
60														
61														
62														
63	8	UC/U		63 15					T			( 12.7	2.4)	
64														
65														
66														
67														
68														
69														
70														
71														
72	10	MC/U	51 24						M	( 10.4	3.9)			
73	11	UC/U		56 8					T			( 16.4	1.9)	
	19	UC/U		65 39					T			( 12.1	5.9)	
74	10	MC/U	48 26						M	( 10.4	4.5)			
75														
76	3	A/U			58									
	12	MC/U	45 26						M	( 9.1	4.2)			
	12	A/U			62 26									
	13	A/U			58 22									
77	10	MC/U	40 21						M	( 8.9	3.8)			
78														
79														
80	1	TC/U		44 21		TC *	8.4	2.6	T 74			11.3	3.5	
	7					MC	8.4	3.6	M ---	8.4	3.6			
	1	MC/U	35 21											
	1	A/U			53 19									
	13	A/U			53 21									
81														
82														
83	17	U/U			47 28									
84														
85														

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Canada

1,2 Ref: Health and Welfare Canada (various years) and Colishaw (1987)

Note: 1. Labour Force Survey Supplements. Conducted annually in December, using one-third of panel from monthly Labour Force Survey. Representative of 97%-98% of populations in institutions, Indian reserves and the Northern Territories. Sample size around 17,000. Sampling based on households, with extensive use of proxy  
2. respondents.

Figures given as table 2 are by Collishaw (1987) CONFIDENTIAL ? using self-respondants only, and adjusted to be representative of the whole population. (Proxy interviews excluded were 47% (1981) and 50% (1983) of interviews). The prevalence of smoking particularly teenagers, may be underestimated by proxy

3. interviews.

Regular cigarette smokers defined as "smoked cigarettes," usually every day.

4. In calculations (ie. combining smokers of cigarette and other products, interval estimation) %s indicated as being based on too small numbers to be reliable, have  
5. to be taken as zero.

The % specifying handmade cigarettes as their main brand type smoked was consistently 7-8% for males and 4-5% females in the period 1977-83. In 1986 the age x sex distribution was:

	15-19	20-24	25-44	45-64	64+	15+
M	6.1	6.2	6.9	14.8	16.1	9.6
F	5.7	7.3	7.2	9.6	9.3	7.8

3 Ref: ? Hanley (1973)

Note: Waterloo School Survey. Year unknown

4 Ref: General Social Survey, cited by Collishaw (1987)

Note: 1. Questionnaire, population and adjustment procedure very similar to Source 1

2. Telephone interviews for persons age under 65, face-to-face interviews for persons age 65+

3. Taken from charts

5 Ref: Forbes (78) quoting Morrison (1961)(1964) and (1968).

Note: 1. Winnipeg, years unknown (assumed 1 year before each publication)

2. Age groups in the 1963 (?) study based on school grades 5-6, 7-9, 10-12

3. "serious smokers"

6 Ref: Forbes (1978) quoting Playfair (1968)

Note: 1. Kenora, year unknown.

2. "serious smokers"

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- 7      Ref:      Forbes (1978) quoting Hanley and Robinson (1976)  
      Note: 1. National study carried out 1971-72, sample size 78,000. Not a probability sample - distributed to schools through Home and School and Parent-Teacher Federation members, representing rural/urban and social structure  
          2. Regular smokers defined as smoking one or more cigarettes per week. All smokers also includes casual smokers who had smoked in the last 4 weeks.
- 9      Ref:      Best and Walker (1964)  
      Note: 1. Baseline of prospective study among Dept. of Veterans Affairs pensioners, excluding those in hospital. Sept 1955-June 1956. Mailed questionnaire, 57% response, of which 59% (69891) were males with adequate smoking data. Not representative of the Canadian population.  
          2. Age distribution of sample reflects ages of enlisted men in the two World Wars and Korean War. 35-39 and 60-64 most heavily represented
- 10     Ref:      Statistics Canada?  
      Note: 1. Sample size 53539M, 51610F (age 8-20)  
          2. Public school students  
          3. Regular smokers are those who smoked daily in the last 4 weeks. All smokers are those who smoked in the last 4 weeks, and those who had ever smoked but whose current status is unknown  
          4. Results from this survey have also been published by Brown et al (1978) using imputed estimates, which assign subjects with incomplete data
- 11     Ref:      Geizerova and Masironi (1987)  
      Note:      No original reference given

#### General Note

The estimates of HR consumption are from Millar (1983) and Todd (198?). They are based on the following assumptions:

- 1) 1 g per cigarette,
- 2) up to 1972, 80.8% of "tobacco for hand-rolled cigarettes and pipe" was used as HR, and
- 3) from 1973 on, all "fine cut tobacco intended for cigarettes" was so used.

Estimates of HR consumption were also given in RP6, successive editions (introduction):

	annual (mns)	per adult daily	As % of Millar/Todd estimate
1966	6160	1.3	88
1970	6120	1.1	88
1973	6723	1.2	91

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Canada

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Table A CANADA

Consumption of Cigarettes and of All Tobacco  
 Sales based data, including estimates of consumption of handrolled cigarettes

Year	Manufactured Cigarettes		Hand-rolled Cigarettes		Total Cigarettes		Total Tobacco	
	total millions annual	n per adult daily	total millions annual	n per adult daily	total millions annual	n per adult daily	total tonnes annual	grams per adult daily
1920	2441	1.2					13900	6.7
1921	2440	1.2					12900	6.1
1922	2043	0.9					13200	6.1
1923	2291	1.0					13100	6.0
1924	2515	1.1					12900	5.8
1925	2823	1.2					13800	6.1
1926	3227	1.4					14300	6.2
1927	3781	1.6					15000	6.3
1928	4436	1.8					16500	6.8
1929	5081	2.0					16600	6.7
1930	5036	2.0					16700	6.5
1931	4533	1.7					16100	6.2
1932	3713	1.4					15100	5.7
1933	4317	1.6					15400	5.7
1934	4822	1.8					16400	6.0
1935	5305	1.9					16900	6.1
1936	5600	2.0					17500	6.2
1937	6698	2.4					19500	6.8
1938	6872	2.4					19700	6.8
1939	7126	2.4					21100	7.2
1940	7572	2.5					22500	7.5
1941	8582	2.8					23500	7.8
1942	10240	3.3					25500	8.3
1943	11257	3.6					26200	8.4
1944	11666	3.7					26200	8.3
1945	14265	4.5					30100	9.6
1946	14867	4.6					30800	9.6
1947	15143	4.7					30700	9.5
1948	15853	4.8					31700	9.5
1949	16836	4.9					32500	9.4
1950	17172	4.9					33000	9.4
1951	15672	4.4					31700	8.9
1952	17844	4.9					35800	9.8
1953	21000	5.7					37200	10.0
1954	22116	5.8					37700	10.0
1955	24576	6.4	8600	2.2	33176	8.6	40000	10.4
1956	27000	6.8	7800	2.0	34800	8.8	41400	10.4
1957	30144	7.4	7600	1.9	37744	9.3	44800	11.0
1958	32404	7.8	8000	1.9	40404	9.7	47900	11.5
1959	33822	8.0	8200	1.9	42022	9.9	49700	11.7
1960	34289	7.9	8300	1.9	42589	9.9	50400	11.7
1961	36699	8.3	8400	1.9	45099	10.3	53100	12.1
1962	38683	8.6	8600	1.9	47283	10.6	55600	12.4
1963	39877	8.7	8200	1.8	48077	10.5	56500	12.4
1964	40639	8.7	7800	1.7	48439	10.4	56900	12.2
1965	43013	9.0	8160	1.7	51173	10.7	59800	12.5
1966	46276	9.4	7000	1.4	53276	10.9	61900	12.6
1967	46864	9.3	6600	1.3	53464	10.6	61900	12.3
1968	46269	8.9	7021	1.4	53290	10.3	61900	12.0
1969	46582	8.8	6817	1.3	53399	10.1	62300	11.7
1970	49823	9.2	6922	1.3	56745	10.5	66100	12.2
1971	50864	9.2	7189	1.3	58053	10.5	67700	12.2
1972	53291	9.4	6974	1.2	60265	10.6	69900	12.3
1973	54863	9.5	7359	1.3	62222	10.7	72100	12.4
1974	57123	9.6	6705	1.1	63828	10.7		
1975	57756	9.5	6710	1.1	64466	10.6		
1976	60745	9.8	6575	1.1	67320	10.9		
1977	61787	9.7	6315	1.0	68102	10.7		
1978	61610	9.5	5659	0.9	67269	10.4		
1979	63866	9.7	5227	0.8	69093	10.5		
1980	64492	9.6	4783	0.7	69275	10.3		
1981	66559	9.7	4764	0.7	71323	10.4		
1982	66339	9.6	5552	0.8	71891	10.4		
1983	63115	8.9	6023	0.8	69138	9.7		
1984	61734	8.6	6166	0.9	67900	9.5		
1985	58954	8.1	6866	0.9	65820	9.1		

2501185852

Canada

Table B

Total sales of tobacco products, 1974-85

Year	Cigarettes millions	Cigars	Fine Cut tobacco intended for cigarettes tons	Other Cut tobacco tons	Total
1974	57,123	awaiting data	6,706	600	
1975	57,756		6,759	953	
1976	60,745		6,577	924	
1977	61,787		6,313	865	
1978	61,610		5,660	856	
1979	63,866		5,227	813	
1980	64,492		4,785	691	
1981	66,559		4,765	721	
1982	66,339		5,552	309	
1983	63,115		6,023	292	
1984	61,734		6,166	250	
1985	58,954		6,866	192	

2501185853



frequency product source year	age group																				all ages			
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +		
56 9 UC U										83	80	79	80	82	83	75	70	68	63	59	43			
60 5 U R	6	14	24	37	47	50	55	56																
63 5 U R	6		29		41																			
64 1 TC R				36				59		62			58			32			54					
65 1 TC R				35				62		63			59			32			55					
65 1 TC A				39				66		66			62			36			58					
66 1 TC R				35				60		62			58			32			54					
67 1 TC R				36				59		62			56			33			53					
67 5 U R	13	22	30	45	50	49	52	67																
67 6 U R	16	21	37	42	51	49	50	50																
68 1 TC R				35				58		59			55			33			52					
69 1 TC R				34				55		56			53			32			50					
70 1 TC R				36				54		56			51			31			49					
70 1 TC A				39				58		58			54			34			52					
71 1 U R			8	16	25	40	41	48																
71 1 TC R				34				56		54			52			32			48					
71 3 U R	6	12	24	35	42	44	48	47																
71 7 U A	21	30	44	51	57	57	62																	
71 7 U R	15	24	37	46	52	53	58	56																
72 1 U R			9	17	28	38	43	50																
72 1 TC R				35				53		53			50			30			47					
73 1 TC R				34				53		53			51			32			48					
74 1 TC R				32				52		51			47			29			45					
74 1 TC A				38				56		54			50			31			49					
75 1 TC R				30				48		48			47			29			43					
75 1 TC R				28				46		46	46	45	48	48	45	45	42	36	27	20				
75 1 TC A				35				53		52			50			34			48					
77 1 TC R				27				45		47			42			28			41					
77 1 TC A				32				50		51			45			31			45					
77 1 A A				32				50		51			51			40			49					
78 10 U R	4	8	15	19	24	27	27	30																
78 10 U A	21	27	34	38	41	42	44	50																
79 1 TC R				27				42		44			41			25			39					
79 1 TC A				31				46		47			44			28			42					
79 1 A A				31				46		52			50			37			46					
81 1 TC R				23				40		43			39			21			37					
81 1 TC A				27				44		46			43			24			40					
81 1 A R				27				44		50			48			31								
81 2 TC A																				44				
83 1 TC R				20				37		39			36			22			34					
83 1 TC A				25				41		43			38			25			37					
83 1 A A				25				41		46			42			31			41					
83 2 TC A				42																				40
85 4 UC A				38																				
85 11 U U				27																				

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

2501185854

frequency product source year	age group																					all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +	
56 9 UC U																						
60 5 U R	3	8	19	25	33	33	30	23														
63 5 U R	2		20		29																	
64 1 TC R						19			41		40				28				8			31
65 1 TC R						19			41		41				30				9			31
65 1 TC A						22			46		44				34				11			35
66 1 TC R						20			43		41				32				8			32
67 1 TC R						21			42		41				32				10			32
67 5 U R	11	24	32	38	44	44	45	39														
67 6 U R	8	15	25	36	37	41	41	37														
68 1 TC R						21			43		41				32				9			32
69 1 TC R						23			39		40				32				11			32
70 1 TC R						25			41		40				32				11			32
70 1 TC A						29			46		43				34				12			36
71 1 U R			6	12	20	26	35	35														
71 1 TC R						25			40		39				32				10			32
71 3 U R	4	12	22	31	34	33	33	38														
71 7 U A	17	33	43	51	52	52	51															
71 7 U R	12	25	37	45	46	45	46	48														
72 1 U R			7	15	20	29	38	43														
72 1 TC R						28			41		39				32				10			32
73 1 TC R						29			41		38				32				11			32
74 1 TC R						28			40		37				30				11			32
74 1 TC A						33			44		41				33				13			35
75 1 TC R						27			38		37				32				11			31
75 1 TC R						26			37	37	36	34	34	36	31	29	24	16	10	6		
75 1 TC A						33			43		41				36				13			36
77 1 TC R						27			41		37				31				12			31
77 1 TC A						32			45		40				34				15			35
77 1 A A						32			45		40				34				15			35
78 10 U R	3	9	20	27	30	30	30	31														
78 10 U A	17	28	40	45	46	45	48	44														
79 1 TC R						26			40		36				29				11			30
79 1 TC A						31			43		40				32				13			34
79 1 A A						31			43		40				32				13			34
81 1 TC R						23			41		33				29				11			29
81 1 TC A						28			45		37				32				13			32
81 1 A R						28			45		37				31				13			
81 2 TC A																						35
83 1 TC R						20			37		34				28				12			28
83 1 TC A						24			41		37				31				14			32
83 1 A A						24			41		37				31				14			32
83 2 TC A						46																35
85 4 UC A															32							
85 11 U U						35																

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

2501185855

product source year	age group																					all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +	
64 1 TCI				13					17	19				19				16				18
65 1 TCI				13					18	19				19				16				18
66 1 TCI				14					18	19				19				16				18
67 1 TCI				13					17	19				19				16				18
68 1 TCI				13					17	19				19				16				18
69 1 TCI				13					17	20				19				16				18
70 1 TCI				13					18	20				20				17				19
71 1 TCI				13					18	20				20				17				19
72 1 TCI				13					18	20				20				17				19
73 1 TCI				14					18	20				20				17				19
74 1 TCI				14					18	20				20				17				19
75 1 TCI				15					18	20				20				17				19
75 1 TCI				15					19	20	21	21	21	22	22	21	20	18	17	15		
77 1 TCI				14					18	20				21				18				20
79 1 TCI				17					18	21				21				18				20
81 1 TCI				15					18	20				21				17				20
81 2 TC				29																		
83 1 TCI				14					18	21				21				17				20
83 2 TC				29																		
85 4 UC				20																		
85 4 UC				29																		

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

I indicates mean calculated from %s in intervals

All ages: relevant to ages used and as given in original source

2501185856

product source year	age group																					all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +	
64 1 TCI						12			14		15				15				12			15
65 1 TCI						12			14		15				15				13			15
66 1 TCI						12			15		16				15				12			15
67 1 TCI						12			15		16				15				12			15
68 1 TCI						12			15		16				15				12			15
69 1 TCI						12			15		16				16				13			15
70 1 TCI						12			16		16				16				13			16
71 1 TCI						12			16		17				16				14			16
72 1 TCI						12			16		17				16				13			16
73 1 TCI						13			16		17				16				13			16
74 1 TCI						13			16		17				17				15			16
75 1 TCI						13			16		17				16				15			16
75 1 TCI						14			17	17	18	19	18	18	18	17	16	15	14	13		
77 1 TCI						14			17		18				17				14			17
79 1 TCI						14			17		18				18				14			17
81 1 TCI						15			17		18				18				14			17
81 2 TC											25											
83 1 TCI						13			17		18				18				13			17
83 2 TC											25											
85 4 UC											16											
85 4 UC											23											

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

I indicates mean calculated from %s in intervals

All ages: relevant to ages used and as given in original source

2501185857

product source year	age group																				all ages	% total sales	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +
64 1 TC					4.8				10		12				11				5.1			9.6	67%T
65 1 TC					4.6				11		12				11				5.1			9.9	67%T
66 1 TC					4.8				11		12				11				5.2			9.8	67%T
67 1 TC					4.5				10		12				11				5.2			9.6	68%T
68 1 TC					4.5				10		11				10				5.2			9.4	69%T
69 1 TC					4.3				9.6		11				10				5.2			9.1	69%T
70 1 TC					4.8				9.5		11				10				5.2			9.1	67%T
71 1 TC					4.5				9.9		11				10				5.4			9.1	67%T
72 1 TC					4.7				9.2		11				10				5.2			8.8	65%T
73 1 TC					4.8				9.2		10				10				5.3			8.9	65%T
74 1 TC					4.6				9.3		10				9.4				4.9			8.6	63%T
75 1 TC					4.3				8.7		9.4				9.2				4.9			8.1	62%T
75 1 TC					4.3				8.6	9.1	9.7	9.7	10	11	9.6	9.4	8.2	6.4	4.5	3.0			63%T
77 1 TC					3.8				8.2		9.6				8.8				4.8			8.0	61%T
79 1 TC					4.4				7.7		9.1				8.5				4.3			7.6	61%T
81 1 TC					3.3				7.1		8.7				8.1				3.7			7.2	58%T
81 2 TC											13												103%T
83 1 TC					2.9				6.6		8.0				7.5				3.8			6.7	59%T
83 2 TC											12												102%T
85 4 UC											11												102%T

2501185858

product source year	age group																				all ages	% total sales	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +
64 1 TC						2.2			5.7			6.0			4.2				0.9			4.5	67%T
65 1 TC						2.2			5.6			6.2			4.5				1.1			4.6	67%T
66 1 TC						2.4			6.3			6.5			4.8				1.0			4.9	67%T
67 1 TC						2.5			6.1			6.3			4.9				1.2			4.8	68%T
68 1 TC						2.6			6.6			6.6			4.8				1.1			4.9	69%T
69 1 TC						2.8			5.9			6.3			4.9				1.4			4.9	69%T
70 1 TC						3.0			6.5			6.6			5.0				1.4			5.1	67%T
71 1 TC						3.0			6.2			6.5			5.2				1.4			5.1	67%T
72 1 TC						3.5			6.4			6.5			5.0				1.3			5.1	65%T
73 1 TC						3.7			6.5			6.4			5.2				1.5			5.1	65%T
74 1 TC						3.6			6.5			6.4			5.0				1.5			5.1	63%T
75 1 TC						3.5			6.2			6.2			5.2				1.6			5.1	62%T
75 1 TC						3.6			6.1	6.3	6.4	6.5	5.9	6.4	5.6	4.8	3.8	2.5	1.3	0.7			63%T
77 1 TC						3.6			6.8			6.6			5.2				1.6			5.3	61%T
79 1 TC						3.7			6.8			6.5			5.1				1.4			5.2	61%T
81 1 TC						3.4			6.9			6.1			5.1				1.5			5.0	58%T
81 2 TC												9.0											103%T
83 1 TC						2.7			6.2			6.1			4.9				1.6			4.9	59%T
83 2 TC												8.5											102%T
85 4 UC												7.5											102%T

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

All ages: relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

2501185859

product source year	age group																				all ages	% total sales	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +
64 1 TC				7.0					15	17				16				7.5				14	67%T
65 1 TC				6.8					16	18				17				7.5				15	67%T
66 1 TC				7.1					16	18				16				7.7				15	67%T
67 1 TC				6.7					15	18				16				7.6				14	68%T
68 1 TC				6.5					15	17				15				7.6				14	69%T
69 1 TC				6.2					14	16				15				7.6				13	69%T
70 1 TC				7.1					14	16				15				7.7				14	67%T
71 1 TC				6.7					15	16				15				8.0				14	67%T
72 1 TC				7.2					14	16				15				8.0				14	65%T
73 1 TC				7.3					14	16				16				8.2				14	65%T
74 1 TC				7.3					15	16				15				7.7				14	63%T
75 1 TC				7.0					14	15				15				8.0				13	62%T
75 1 TC				6.9					14	15	16	16	16	17	15	15	13	10	7.2	4.8		63%T	
77 1 TC				6.3					13	16				14				7.9				13	61%T
79 1 TC				7.3					13	15				14				7.1				13	61%T
81 1 TC				5.8					12	15				14				6.3				12	58%T
81 2 TC				12																	103%T		
83 1 TC				5.0					11	14				13				6.6				11	59%T
83 2 TC				11																	102%T		
85 4 UC				11																	102%T		

2501185860

Canada

Female cigarettes per person per day, adjusted

product source year	age group																				all ages	% total sales	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +
64 1 TC						3.3			8.4			8.9				6.3				1.4		6.7	67%T
65 1 TC						3.3			8.4			9.3				6.7				1.6		6.9	67%T
66 1 TC						3.5			9.3			9.7				7.2				1.5		7.3	67%T
67 1 TC						3.7			9.0			9.3				7.3				1.7		7.2	68%T
68 1 TC						3.7			9.5			9.6				6.9				1.6		7.1	69%T
69 1 TC						4.0			8.6			9.2				7.1				2.0		7.1	69%T
70 1 TC						4.5			9.7			9.7				7.4				2.0		7.5	67%T
71 1 TC						4.5			9.2			9.7				7.7				2.1		7.6	67%T
72 1 TC						5.4			9.9			10				7.7				2.1		7.9	65%T
73 1 TC						5.7			10			9.9				8.0				2.3		7.9	65%T
74 1 TC						5.7			10			10				7.9				2.5		8.1	63%T
75 1 TC						5.7			10			10				8.4				2.6		8.2	62%T
75 1 TC						5.8			9.8	10	10	10	9.4	10	9.0	7.7	6.1	4.0	2.1	1.1			63%T
77 1 TC						5.9			11			11				8.4				2.7		8.6	61%T
79 1 TC						6.1			11			11				8.4				2.4		8.5	61%T
81 1 TC						5.8			12			10				8.7				2.6		8.6	58%T
81 2 TC																8.7							103%T
83 1 TC						4.6			10			10				8.4				2.7		8.3	59%T
83 2 TC																8.3							102%T
85 4 UC																7.4							102%T

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
All ages: relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

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Table H CANADA

year	source	% SMOKERS				CIGARETTES PER MAN & PER WOMAN										
		product /freq code	man cigs		tot cigs		all prods		product code	ORIGINAL		product adjust factor	ADJUSTED to MAN CIGS		ADJUSTED to TOT CIGS	
			m	w	m	w	m	w		per man	per woman		per man	per woman	per man	per woman
40																
41																
42																
43																
44																
45																
46																
47																
48																
49																
50																
51																
52																
53																
54																
55																
56																
57																
58																
59																
60																
61																
62																
63																
64	1	TC/R		54	30			TCI	9.6	4.4	T 67				14.2	6.5
65	1	TC/R		55	31			TCI	9.9	4.6	T 67				14.7	6.8
	1	TC/A		58	35											
66	1	TC/R		54	32			TCI	9.8	4.8	T 67				14.6	7.2
67	1	TC/R		53	32			TCI	9.6	4.8	T 68				14.2	7.1
68	1	TC/R		52	32			TCI	9.3	4.9	T 69				13.5	7.1
69	1	TC/R		50	32			TCI	9.1	4.8	T 69				13.2	7.0
70	1	TC/R		49	32			TCI	9.1	5.0	T 67				13.5	7.5
	1	TC/A		52	35											
71	1	TC/R		48	32			TCI	9.1	5.0	T 67				13.5	7.5
72	1	TC/R		47	32			TCI	8.8	5.0	T 65				13.6	7.8
73	1	TC/R		48	32			TCI	8.9	5.1	T 65				13.6	7.9
74	1	TC/R		45	31			TCI	8.5	5.1	T 63				13.5	8.0
	1	TC/A		49	35											
75	1	TC/R		43	31			TCI	8.2	5.0	T 63				13.1	8.0
	1	TC/R		42	30						T			(	13.4	7.7)
	1	TC/A		47	35											
76																
77	1	TC/R		41	31			TCI	7.9	5.2	T 61				12.9	8.5
	1	TC/A		45	35											
	1	A/A				47	35									
78																
79	1	TC/R		39	30			TCI	7.6	5.2	T 61				12.5	8.5
	1	TC/A		42	33											
	1	A/A				46	33									
80																
81	1	TC/R		37	29			TCI	7.1	5.0	T 58				12.2	8.5
	2							TC	12.5	9.0	T 103				12.1	8.7
	1	TC/A		40	32											
	1	A/R				44	32									
82																
83	1	TC/R		34	28			TCI	6.7	4.8	T 59				11.4	8.2
	2							TC	11.5	8.5	T 102				11.2	8.3
	1	TC/A		37	31											
	1	A/A				40	31									
84																
85	4	UC/A		38	32			UC	11.0	7.5	T 102				10.8	7.4

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Denmark

Source  
number

- 1 Ref: Nielsen & Krarup (1976) tables II and III  
GFT table no: 2.1, 3.3  
Note: 1. Based on a sample of 5,550 males and 5,666 females  
2. Interval estimation based on 1-7, 8-14, 15-19, 20+
- 2 Ref: Mørck et al (1982) p.136  
GFT table no: 2.2  
Note: "Smokers" presumably included regular and occasional smokers
- 3 Ref: Dr. P.E. Nielsen (private communication) (From Todd (1986) p.84)  
GFT table no: 2.3
- 4 Ref: OBSERVA A/S  
GFT table no: 2.4  
Note: 1. Sample sizes: 1976 - 1314; 1980 - 1319; 1984 - 1252  
2. Merzdorf (1982) quotes these figures for age 20+  
3. Guesstimates for age 15-17, % smokers, Male 1976-78:25, 1980-84:20. Female:25
- 5 Ref: Nielsen et al (1978) table 1  
GFT table no: 3.2  
Note: Interval estimation based on 1-14,15+
- 6 Ref: Hamtoft & Lindhart (1955) p.219  
GFT table no: 4.1  
Note: 1. August 1952 - April 1953 and January - April 1954  
2. Interval estimation based on <5 (assume 1-5), 6-15,16-25,26+
- 7 Ref: Roed-Petersen (1984)  
Note: 1. Representative sample in eastern Denmark (Seeland, Lolland-Falster and Bornholm) in October 79. Sample size 1651 (out of intended sample of 2308, 71.5%)  
2. Daily smoking during past 3 months  
3. Guesstimates for age 15, % smokers, Male:15, Female:15
- 8 Ref: Todd (1986) quoting Hagerup et al (1981)  
Note: Glostrup
- 10 Ref: Todd (1986) p.81  
GFT table no: 4.2  
Note: Estimated by Todd from the available data
- 11 Ref: Merzdorf (1982) quoting OBSERVA  
Note: 1. Figures for 15-19 year olds may be available, but are not in systematic form  
2. Overall figure for 1960 is for age 20+

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3. Guesstimates for age 15-19, % smokers A, Male 1961,68-74:40; Female:30. % smoker TC, Male 1965-67,69,71-73,79:25; Female:20. % smokers MC, Male 1976-78:20, Female 1976-78: 20, 1980: 25.
  - 12 Ref: Merzdorf (1982) quoting Tobacco Industry
  - 13 Ref: Ibsen (1982)  
Note: 1. Taken from graph  
2. 1961: national survey (no details)  
1980: stratified sample of 39 schools, self completion questionnaire in class  
3. In 1980, 60% of smokers smoked every day, 95% smoke cigarettes
  - 14 Ref: Lidegaard (1984)  
Note: 1. Representative sample of 788 women  
2. Taken from diagram  
3. Interval estimation based on 1-10,>10
  - 15 Ref: Agner & Mørck (unpublished)  
Note: 1. 70-year olds in Glostrup  
2. Consumption is in grams of tobacco (including cigars/pipe/cheroots by mixed smokers)
  - 16 Ref: ITL Market Research Dept.  
Note: 1. Confidential  
2. Nationally representative consumer survey, sample size 2000
  - 17 Ref: WHO (1989)  
Note: 1. Regional survey forming part of WHO MONICA Project
- | Region   | Population size | Sample size | Participation rate% | Sample used<br>M F | Date        |
|----------|-----------------|-------------|---------------------|--------------------|-------------|
| Glostrup | 132000          | 3563        | 79                  | 1940 1845          | 11.82-02.84 |
- (whole country 1.9mn)  
Sample used includes age 25-34, all other figures are for age 35-64 only.
2. Overall % relates only to age 35-64.
  3. Regular cigarette smokers defined as those who smoked cigarettes every day. All smokers additionally includes those who smoked cigarettes occasionally, or lg. pipe tobacco per week, or 1 cigar per week.

#### General note

Data for consumption of man. cigs from 1984 onwards, Ref: Danmarks Statistik. Tax-paid sales.

According to Egsmose and Egsmose (1988), a further 10-20% of tobacco is purchases by Danes in tax-free areas.

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From Morck et al. (1982) "Owing to the tax position, the part played by HR cigarettes is very small (four to five per cent). During the last few years, however, this has tended to increase". It is not clear whether this means 4-5% of tobacco is used for HR cigarettes, or that 4-5% of cigarettes are HR. This is contrary to estimates by Merzdorf (1982) who estimates HR consumption on the basis of 80% of tobacco sales - this gives HR as a proportion of all cigarettes falling from about 30% in 1960 to 15% in 1980.

Any contribution for HR has been ignored in calculations so far

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Denmark

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Table A DENMARK

Consumption of Cigarettes and of All Tobacco  
Sales based data, including estimates of consumption of handrolled cigarettes

Year	Manufactured Cigarettes		Hand-rolled Cigarettes		Total Cigarettes		Total Tobacco	
	total millions annual	n per adult daily	total millions annual	n per adult daily	total millions annual	n per adult daily	total tonnes annual	grams per adult daily
1920	860	1.1						
1921	868	1.1					6400	8.0
1922	943	1.1					6200	7.4
1923	1109	1.3					6900	7.9
1924	1159	1.3					6800	7.8
1925	1219	1.4					6700	7.6
1926	1325	1.5					7100	8.1
1927	1373	1.6					6900	7.9
1928	1544	1.7					7100	7.8
1929	1017	1.1					6800	7.5
1930	1319	1.4					7300	7.7
1931	1332	1.4					7300	7.7
1932	1170	1.2					7300	7.7
1933	1142	1.2					7500	7.6
1934	1214	1.2					7800	7.9
1935	1307	1.3					8200	8.0
1936	1404	1.4					8600	8.4
1937	1507	1.5					8800	8.6
1938	1605	1.5					8900	8.4
1939	1748	1.7					9300	8.8
1940	1662	1.6					8600	8.1
1941	1577	1.5					7000	6.6
1942	1779	1.6					7400	6.8
1943	1094	1.0					5300	4.8
1944	1318	1.2					5800	5.3
1945	1163	1.1					5300	4.8
1946	2150	1.9					9200	8.1
1947	2380	2.1					9600	8.5
1948	2663	2.4					10500	9.3
1949	3489	3.1					10700	9.5
1950	4008	3.5					11300	9.8
1951	3483	3.0					10100	8.7
1952	3881	3.3					10700	9.2
1953	3931	3.4					10900	9.3
1954	3834	3.2					10900	9.2
1955	3787	3.2					10800	9.1
1956	3882	3.2					10900	9.1
1957	4010	3.3					11000	9.1
1958	4349	3.6					11500	9.4
1959	4706	3.8					12100	9.8
1960	4990	4.0					12400	9.9
1961	5097	4.0					12500	9.9
1962	5257	4.1					12900	10.0
1963	5600	4.3					12800	9.8
1964	5277	4.0					13200	10.1
1965	5414	4.1					13400	10.1
1966	5566	4.2					13400	10.0
1967	5614	4.2					13400	10.0
1968	5799	4.3					13400	9.9
1969	6274	4.6					13800	10.1
1970	6357	4.6					13700	9.9
1971	6481	4.7					13700	9.9
1972	6940	5.0					14000	10.0
1973	7202	5.1					14100	10.0
1974	6800	4.8						
1975	7200	5.0						
1976	7800	5.4						
1977	7600	5.3						
1978	7400	5.1						
1979	7600	5.2						
1980	7000	4.7						
1981	7300	4.9						
1982	8000	5.3						
1983	8000	5.3						
1984	8000	5.3						
1985								

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## Denmark

Table B

Total sales of tobacco products, 1974-85

Year	Cigarettes millions	Cigarettes tons (assuming 1.3g per cig)	Cigars cheroots & cigarillos millions	Cigars cheroots & cigarillos tons (assuming 3g per c/ch)	Smoking tobacco tons	chewing tobacco tons	Total Weight tons
1974	6,800	8,840	900	2,700	2,700	300	14,540
1975	7,200	9,360	900	2,700	2,000	300	14,360
1976	7,800	10,140	900	2,700	1,800	300	14,940
1977	7,600	9,880	900	2,700	1,900	300	14,780
1978	7,400	9,620	800	2,400	1,800	200	14,020
1979	7,600	9,880	1,000	3,000	1,900	200	14,980
1980	7,000	9,100	700	2,100	2,100	200	13,500
1981	7,300	9,490	600	1,800	2,300	200	13,790
1982	8,000	10,400	600	1,800	2,500	200	14,900
1983	Awaiting data						
1984							
1985							

Table C

% of tobacco consumed in different forms, by weight, 1974-85

Year	%cigarettes	%cigars cheroots & cigarillos	% smoking tobacco	%chewing tobacco & snuff
1974	60.80	18.57	18.57	2.06
1975	65.18	18.80	13.93	2.09
1976	67.87	18.07	12.05	2.01
1977	66.85	18.27	12.86	2.03
1978	68.62	17.12	12.84	1.43
1979	65.95	20.03	12.68	1.34
1980	67.41	15.56	15.56	1.48
1981	68.82	13.05	16.68	1.45
1982	69.80	12.08	16.78	1.34
1983	Awaiting data			
1984				
1985				

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frequency product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
53 5 UC U				23																		
53 5 A U				78																		
53 6 UC U				28					35		32		27		16		6		2			
53 6 A U				61					83		85		83		79		70		59			
60 11 A U	22								76		82		85		77		70					70
61 11 A U									65													
61 13 A A	80	83	90																			
63 5 UC U				39																		
63 5 A U				71																		
65 11 TC U									43													
66 11 TC U									42													
67 11 TC U									40													
67 15 UC R																				(20)		
68 11 A U									72													
69 5 UC U				41																		
69 5 A U				68																		
69 11 TC U									46													
69 11 A U									72													
70 2 A A				68																		
70 5 UC U				42																		
70 11 A U									69													
71 2 A A				67																		
71 5 UC U				39																		
71 11 TC U									46													
71 11 A U									69													
72 2 A A				64																		
72 5 UC U				40																		
72 11 TC U									47													
72 11 A U									68													
73 2 A A				63																		
73 5 UC U				41																		
73 11 TC U									46													
73 11 A U									66													
73 16 UC U				47					42		39		28					37				
74 2 A A				64																		
74 5 UC U				42																		
74 11 A U									64													
74 12 A U	40								63		65		70		69		61					
74 8 U U													61		78		68		77		54	
75 1 UC U				38					57		54		48		50		38		15			41
75 1 A U				41					62		62		64		70		66		52			61
75 2 A A				60																		
75 5 UC U				40																		
75 12 A U				41					62		64		70		66		52					
76 2 A A				61																		

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 Frequency: A all smokers (including occasional), R regular or daily smokers  
 All ages: relevant to ages used and as given in original source

2501185869



frequency product, source year	age group																				all ages		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +	
76 4 A A							51			67			63			55						62	
76 5 UC U					41																		
76 11 MC U									37														
76 12 A U					35			63		62		69		67		59							
77 2 A A					59																		
77 4 A A							53			65			58			52						59	
77 11 MC U									36														
78 2 A A					57																		
78 4 A A							51			62			60			52						57	
78 11 MC U									40														
79 2 A A					57																		
79 7 A R					39			62			60			56						59			
79 11 TC U									38														
80 3 A U					33			51	61	61		62		64		53						57	
80 4 A A							46			59			54			39						53	
80 11 MC U																							
80 13 A A	12	18	26	35	52																		
81 4 A A							41			59			60			40						53	
82 4 A A							43			57			60			40						53	
83 4 A A							42			53			55			32						48	
83 14 UC U																							
83 17 UC R									55		44		50		39								45
83 17 A A									64		59		65		59								61
84 4 A A							39			53			54			36						48	

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

2501185870

frequency product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
53 5 UC U				33																		
53 5 A U				40																		
53 6 UC U				40					57		47		29		17		6		2			
53 6 A U				41					59		51		38		31		20		10			
60 11 A U	13								55		56		50		38		23				30	
61 11 A U									39													
61 13 A A	53	60	75																			
63 5 UC U				32																		
63 5 A U				41																		
65 11 TC U									35													
66 11 TC U									36													
67 11 TC U									34													
67 15 UC R																				(12)		
68 11 A U									46													
69 5 UC U				35																		
69 5 A U				44																		
69 11 TC U									40													
69 11 A U									50													
70 2 A A				47																		
70 5 UC U				36																		
70 11 A U									47													
71 2 A A				45																		
71 5 UC U				35																		
71 11 TC U									38													
71 11 A U									48													
72 2 A A				46																		
72 5 UC U				37																		
72 11 TC U									40													
72 11 A U									49													
73 2 A A				46																		
73 5 UC U				37																		
73 11 TC U									41													
73 11 A U									50													
73 16 UC U				43						41		39		24				34				
74 2 A A				46																		
74 5 UC U				38																		
74 11 A U									48													
74 12 A U	37								50		50		56		46		30					
74 8 U U													49		59		52		46		26	
75 1 UC U				39					56		47		45		48		31		13		37	
75 1 A U				40					58		48		49		55		44		29		45	
75 2 A A				46																		
75 5 UC U				38																		
75 12 A U				40					53		49		55		44		29					
76 2 A A				47																		

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

2501185871

frequency product source year	age group																				all ages			
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +		
76 4 A A									58			53			41			25			46			
76 5 UC U					39																			
76 11 MC U									36															
76 12 A U					42				57		50		59		48			33						
77 2 A A					47																			
77 4 A A							48			46			37			33			42					
77 11 MC U									29															
78 2 A A					46																			
78 4 A A							46			46			40			35			43					
78 11 MC U									32															
79 2 A A					45																			
79 7 A R					43				52			45			28			46						
79 11 TC U									33															
80 3 A U					33				52		51		48		52		49			29			44	
80 4 A A							46			45			39			34			42					
80 11 MC U									30															
80 13 A A	10	20	35	45	48																			
81 4 A A							49			47			38			41			44					
82 4 A A							46			49			42			39			45					
83 4 A A							50			48			42			38			46					
83 14 UC U					33				57		60		55		53		49					50		
83 17 UC R									56		45		48		36					44				
83 17 A A									57		49		54		44					50				
84 4 A A							49			45			45			34			44					

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

2501185872

## E Denmark Male Cigarettes per smoker per day

product source year	age group																				all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +
53 6 UCI				9.0					13	15			14		14		11		6.2		
67 15 UC *																			14		
69 5 UCI												12									
70 5 UCI												12									
71 5 UCI												12									
72 5 UCI												13									
73 5 UCI												13									
74 5 UCI												13									
75 5 UCI												14									
75 1 UCI												11									
76 5 UCI												14									
83 14 UCI																					

## E Denmark Female Cigarettes per smoker per day

product source year	age group																				all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +
53 6 UCI				6.1					7.4	7.7			7.5		6.2		5.2		4.8		
67 15 UC *																			10		
69 5 UCI												10									
70 5 UCI												10									
71 5 UCI												11									
72 5 UCI												11									
73 5 UCI												11									
74 5 UCI												11									
75 5 UCI												11									
75 1 UCI												9.9									
76 5 UCI												11									
83 14 UCI				15					14	15	17	16	15								

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

I indicates mean calculated from %s in intervals

All ages: relevant to ages used and as given in original source

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F Denmark

Male Cigarettes per person per day

product source year	age group																				all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		
53 6 UC				2.6					4.5		4.7		3.7		2.2		0.6		0.1			80% <sub>m</sub>
67 15 UC *	3																					***
69 5 UC				4.9																		91% <sub>m</sub>
70 5 UC				5.0																		94% <sub>m</sub>
71 5 UC				4.8																		90% <sub>m</sub>
72 5 UC				5.0																		90% <sub>m</sub>
73 5 UC				5.2																		91% <sub>m</sub>
74 5 UC				5.4																		100% <sub>m</sub>
75 5 UC				5.5																		97% <sub>m</sub>
75 1 UC				4.5																		81% <sub>m</sub>
75 10 MC				5.7																		--- M
76 5 UC				5.8																		93% <sub>m</sub>
83 14 UC																						***

F Denmark

Female Cigarettes per person per day

product source year	age group																				all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		
53 6 UC				2.4					4.3		3.6		2.1		1.0		0.3		0.1			80% <sub>m</sub>
67 15 UC *	《 1 》																					***
69 5 UC				3.5																		91% <sub>m</sub>
70 5 UC				3.7																		94% <sub>m</sub>
71 5 UC				3.6																		90% <sub>m</sub>
72 5 UC				4.0																		90% <sub>m</sub>
73 5 UC				4.1																		91% <sub>m</sub>
74 5 UC				4.2																		100% <sub>m</sub>
75 5 UC				4.3																		97% <sub>m</sub>
75 1 UC				3.7																		81% <sub>m</sub>
75 10 MC				4.7																		--- M
76 5 UC				4.3																		93% <sub>m</sub>
83 14 UC				5					8	9	10	9	7									***

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

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## G Denmark Male Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		
53 6 UC				3.2					5.6		5.9		4.6		2.7		0.7		0.1			80% <sub>m</sub>
67 15 UC *	3																					***
69 5 UC				5.4																		91% <sub>m</sub>
70 5 UC				5.3																		94% <sub>m</sub>
71 5 UC				5.3																		90% <sub>m</sub>
72 5 UC				5.5																		90% <sub>m</sub>
73 5 UC				5.7																		91% <sub>m</sub>
74 5 UC				5.4																		100% <sub>m</sub>
75 5 UC				5.7																		97% <sub>m</sub>
75 1 UC				5.5																		81% <sub>m</sub>
75 10 MC				5.7																		--- M
76 5 UC				6.3																		93% <sub>m</sub>
83 14 UC																						***

## G Denmark Female Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		
53 6 UC				3.0					5.4		4.5		2.6		1.2		0.4		0.1			80% <sub>m</sub>
67 15 UC *	《 1 》																					***
69 5 UC				3.8																		91% <sub>m</sub>
70 5 UC				3.9																		94% <sub>m</sub>
71 5 UC				4.0																		90% <sub>m</sub>
72 5 UC				4.4																		90% <sub>m</sub>
73 5 UC				4.5																		91% <sub>m</sub>
74 5 UC				4.2																		100% <sub>m</sub>
75 5 UC				4.4																		97% <sub>m</sub>
75 1 UC				4.6																		81% <sub>m</sub>
75 10 MC				4.7																		--- M
76 5 UC				4.6																		93% <sub>m</sub>
83 14 UC				5					8	9	10	9	7									***

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

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Table H DENMARK

year	source	% SMOKERS			product code	CIGARETTES PER MAN & PER WOMAN				ADJUSTED			
		product /freq code	man cigs m w	tot cigs m w		all prods m w	ORIGINAL per man per woman	product adjust factor	ADJUSTED to MAN CIGS per man per woman	ADJUSTED to TOT CIGS per man per woman			
40													
41													
42													
43													
44													
45													
46													
47													
48													
49													
50													
51													
52													
53	6	UC/U		24 32		UCI	3.1	2.3	m 80	3.9	2.8		
	5	UC/U		23 33					m (	3.2	3.5)		
	5	A/U			78 40								
	6	A/U			77 39								
54													
55													
56													
57													
58													
59													
60	11	A/U			68 38								
61	11	A/U			62 38								
62													
63	5	UC/U		39 32					m (	5.2	3.4)		
	5	A/U			71 41								
64													
65	11	TC/U		41 33					m (	5.0	3.2)		
66	11	TC/U		40 34					m (	5.0	3.4)		
67	11	TC/U		38 33					m (	5.0	3.4)		
68	11	A/U			69 44								
69	5	UC/U		41 35		UCI	4.9	3.5	m 91	5.4	3.8		
	5	A/U			68 44								
	11	TC/U		44 38					m (	5.4	3.8)		
	11	A/U			69 48								
70	5	UC/U		42 36		UCI	5.0	3.7	m 94	5.3	3.9		
	2	A/A			68 47								
	11	A/U			66 45								
71	5	UC/U		39 35		UCI	4.8	3.6	m 90	5.3	4.0		
	2	A/A			67 45								
	11	TC/U		44 36					m (	5.6	3.7)		
	11	A/U			66 46								
72	5	UC/U		40 37		UCI	5.0	4.0	m 90	5.5	4.4		
	2	A/A			64 46								
	11	TC/U		45 38					m (	5.9	4.0)		
	11	A/U			65 47								
73	5	UC/U		41 37		UCI	5.2	4.1	m 91	5.7	4.5		
	2	A/A			63 46								
	11	TC/U		44 39					m (	6.0	4.3)		
	11	A/U			63 48								
	16	UC/U		38 34					m (	5.9	4.3)		
74	5	UC/U		42 38		UCI	5.4	4.2	m 100	5.4	4.2		
	2	A/A			64 46								
	11	A/U			62 46								
	12	A/U			62 45								
75	5	UC/U		40 38		UCI	5.5	4.3	m 97	5.7	4.4		
	1	UC/U		42 37		UCI	4.5	3.7	m 81	5.5	4.6		
	10					MC	5.7	4.7	M ---	5.7	4.7		
	1	A/U			61 45								
	2	A/A			60 46								
	12	A/U			61 45								
76	5	UC/U		41 39		UCI	5.8	4.3	m 93	6.3	4.6		
	2	A/A			61 47								
	4	A/A			58 46								
	11	MC/U	36 35						M (	6.1	4.7)		
	12	A/U			61 48								
77	2	A/A			59 47								
	4	A/A			57 41								
	11	MC/U	35 28						M (	6.4	4.1)		
78	2	A/A			57 46								
	4	A/A			56 42								
	11	MC/U	39 31						M (	6.2	4.0)		
79	2	A/A			57 45								

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	7	A/R		58	44
	11	TC/U	37 32		
80	3	A/U		57	44
	4	A/A		50	41
	11	MC/U	30		
81	4	A/A		51	43
82	4	A/A		50	44
83	4	A/A		47	44
84	4	A/A		46	43
85					

m	(	6.1	4.3)
---	---	-----	------

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Finland

Source  
number

- 1      Ref:      Mørck et al (1982) p.138  
         GFT table no: 2.1  
         Note:    "Smoker" presumably included regular and occasional  
                 smokers
- 2      Ref:      World Health Organization, Regional Office for Europe,  
                 (1975)  
         GFT table no: 2.2  
         Note: 1. Results of surveys by Joint Opinion and Market  
                 Analysis, operated by the Finnish Gallup Poll  
                 2. Smokers were defined by the question: "Did you smoke  
                 yesterday?"  
                 3. Guesstimates for age 15, % smokers, Male 1967,70,73:20;  
                 Female 1967:5, 1970:10, 1973:15
- 3      Ref:      Martelin (1984) p.85, based on data of Pedersen et al  
                 (1969)  
         GFT table no: 4.1  
         Note: 1. Males in 1962-63 by cohort, 5 groups weighted to be  
                 representative of Finland population  
                 2. Interval estimation based on 1-14,15+
- 4      Ref:      Martelin (1984) p.86 using data from Sievers et al  
                 (1974)  
         GFT table no: 4.3  
         Note: 1. Interval estimation based on 1-14,15+
- 5      Ref:      Martelin (1984) p.88 using unpublished data from the  
                 Central Statistical Office (ELO)  
         GFT table no: 4.4  
         Note: 1. Interval estimation based on 1-14,15+  
                 2. Guesstimates for age 83+, % smokers, Male:15, Female:1
- 6      Ref:      Martelin (1984) p.89 using unpublished data from  
                 National Public Health Institute  
         GFT table no: 4.5  
         Note: 1. Interval estimation based on 1-14,15+.  
                 2. Guesstimates for age 70+, % smokers, Male:20, Female:3
- 7      Ref:      Computer print out supplied by Dr. J. Kaprio from the  
                 Finnish Twin Cohort Study  
         GFT table no: 4.6  
         Note: 1. It is difficult to assess the representativeness of a  
                 large number of MZ and DZ twins "treated as  
                 individuals". Kaprio et al (1978) p.90 concluded: "The  
                 distribution of cigarette smoking frequencies did not  
                 differ in MZ and DZ twins considered as individually."  
                 2. These figures (%) differ from those given by Kaprio et

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- al (1978), Table 5.5.2
3. Interval estimation based on 1-9,10-19,20+
  4. Guesstimates for age 15-17, % smokers, Male:25, Female:20. Cigs per person, Male:3.0, Female:2.0
- 9 Ref: Rimpela, A, Juvenile Health Habit Study, 1095. Private communication  
GFT table no: 5.2, 5.3  
Note: 1. % smokers of manufactured + HR cigarettes, but consumption levels of manufactured cigarettes only. HR cigarettes are rare in Finland  
2. Regular smokers were defined as persons who smoked one or more cigarettes per day  
3. Sample sizes:
- | Age | Year | Boys | Girls |
|-----|------|------|-------|
| 14  | 1973 | 617  | 647   |
|     | 77   | 345  | 367   |
|     | 79   | 565  | 535   |
|     | 81   | 488  | 548   |
|     | 83   | 430  | 483   |
|     | 85   | 393  | 432   |
| 16  | 1973 | 615  | 678   |
|     | 77   | 386  | 347   |
|     | 79   | 528  | 579   |
|     | 81   | 535  | 529   |
|     | 83   | 415  | 510   |
|     | 85   | 452  | 497   |
| 18  | 1973 | 563  | 575   |
|     | 77   | 347  | 330   |
|     | 79   | 523  | 513   |
|     | 85   | 400  | 463   |
- 11 Ref: Central Statistical Office of Finland  
Note: 1. Health education survey commissioned by the National Board of Health. Sample size 1605M, 1542 F  
2. Cigarettes includes small cigars  
3. Guesstimates for age 65+, % smokers A/A, Males:25; Females:6. A/R Males:20; Females:5. MC, Males:15; Females:5
- 13 Ref: Valtonen and Rimpela (1984). 1983-4 data: private communication, National Board of Health, Helsinki  
Note: 1. It is not clear if Source 13, 15 and 16 relate to the same surveys  
2. Some data by half-year and by 2-year age groups also available  
3. Guesstimates for age 65+, % smokers A: Males:25; Females 1978:3, 1979:5, 1980-84:6. % smokers R, Males:20, Females 1978:2, 1979:3, 1980-84:5
- 14 Ref: Valtonen and Rimpela (1984)

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- Note: 1. Age group unknown  
2. Guesstimates for age 65+, % smokers, Male, 1960-61,63-69:35, 1970-73:30, 1975-81:25; Female 1960-61,63-73,75-78:3, 1979:5, 1980-81:6
- 15 Ref: Dr. T. Hakulinen, Finish Cancer Registry, private communication  
See note to Source 13  
Note: 1. Guesstimates for age 65+, % smoker, Male:25; Female:6
- 16 Ref: Koskela et al (1982)  
See note to Source 13  
Note: 1. Mailed cross-sectional representative random samples, N=4000-6000, response about 80%  
2. Consumption per smoker and per person figures are "average times smoked per day"  
3. Guesstimates for age 65+, % smokers, Male:20; Female 1978:2, 1979:3, 1980:5
- 17 Ref: Rimpela et al (1974)  
Note: 1. Study of asthma in 1966 in Harjavalta community, sample size 1092 (=20% of population). Mailed follow-up in 1971, 78% response  
2. Guesstimates for age 65+, % smokers, Male:30; Female:3
- 18 Ref: Heinonen et al (1972)  
Note: 1. Multiphasic screening programme in 13 communities during 1966-68. Sample size 22023  
2. Includes those who gave up smoking < 1 year ago
- 19 Ref: Byckling & Sauri (1985)  
Note: Cross-sectional study for atherosclerosis precursors in 1790 persons age 12, 15, 18
- 20 Ref: WHO (1978) quoting Finnish Health and Social Security department
- 21 Ref: Masironi and Roy (1981)
- 22-24 Ref: WHO (1989)  
Note: 1. 3 regional surveys forming part of WHO MONICA Project

Region	Population size	Sample size	Participation rate%	Sample used		Date
				M	F	
22 North Karelia	59800	3085	80	1479	1605	01.82-04.82
23 Kuopio Province	87900	2397	85	1454	1315	01.82-04.82
24 Turku/Loimaa	74200	3019	85	1580	1678	01.82-04.82

- (whole country mn)  
Sample used includes age 25-34, all other figures are for age 35-64 only.  
2. Overall % relates only to age 35-64.

3. Regular cigarette smokers defined as those who smoked cigarettes every day. All smokers additionally includes those who smoked cigarettes occasionally, or lg. pipe tobacco per week, or 1 cigar per week.

General note

Consumption figures 1970-85 are wholesale trade purchases from tobacco factories and imports, January - December. Ref: Central Statistical Office of Finland. The figures for 1970-73 are slightly different from RP6.

Handrolling of cigarettes is very uncommon in Finland (Pedersen et al, 1969) and has been ignored in calculations.

Consumptions of cigarettes, and cigars by weight, were obtained by numbers by using conversion factors of 0.96 g per cigarette and 2 g per cigar/cigarillo. These factors were based on the average used in RP6 for 1970-73.

A type of cigarette which was commonly used in Finland is the "pilli" in which only half the length of the cigarette is filled with tobacco, the other half being an open mouth-piece made of thin cardboard. On average the "pilli" contains one half of a gram of tobacco. Usually the tobacco in the "pilli" is smoked completely. Up till about 1940 a wooden mouth-piece was provided with each pack of manufactured cigarettes of the conventional type, "polli", in Finland, and even this type of cigarette was then as a rule smoked down to a very small butt.

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Finland

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Table A FINLAND

## Consumption of Cigarettes and of All Tobacco

Sales based data, including estimates of consumption of handrolled cigarettes

Year	Manufactured Cigarettes		Hand-rolled Cigarettes		Total Cigarettes		Total Tobacco	
	total millions annual	n per adult daily	total millions annual	n per adult daily	total millions annual	n per adult daily	total tonnes annual	grams per adult daily
1920	2781	3.6					2600	3.4
1921	2132	2.8					1900	2.5
1922	2337	2.9					2100	2.6
1923	2835	3.5					2700	3.4
1924	3002	3.6					2900	3.5
1925	3035	3.6					2800	3.3
1926	3024	3.6					2700	3.2
1927	3423	4.1					2900	3.5
1928	3616	4.1					3100	3.5
1929	3721	4.2					3200	3.7
1930	3913	4.3					3400	3.7
1931	3104	3.4					2800	3.1
1932	2960	3.2					2700	3.0
1933	3037	3.2					2800	3.0
1934	3322	3.5					3100	3.3
1935	3497	3.7					3200	3.4
1936	3616	3.7					3400	3.5
1937	3989	4.0					3800	3.9
1938	4488	4.6					4000	4.1
1939	3963	4.0					3900	4.0
1940	3780	3.8					3600	3.7
1941	4473	4.5					4200	4.3
1942	3621	3.7					2900	2.9
1943	3624	3.7					2500	2.5
1944	2925	3.0					1900	1.9
1945	2140	2.1					1400	1.4
1946	2886	2.8					2300	2.3
1947	3608	3.5					3300	3.2
1948	4258	4.2					4200	4.1
1949	4326	4.2					4400	4.3
1950	4580	4.4					4500	4.4
1951	4666	4.5					4700	4.6
1952	5187	5.0					5000	4.8
1953	5165	4.9					4900	4.7
1954	5561	5.2					5200	4.9
1955	5704	5.3					5200	4.9
1956	5868	5.4					5300	4.9
1957	5545	5.1					5600	5.1
1958	5241	4.8					4900	4.5
1959	5838	5.3					5300	4.8
1960	6287	5.6					5500	4.9
1961	6621	5.8					6000	5.2
1962	6701	5.8					6200	5.3
1963	7231	6.1					7200	6.1
1964	5546	4.6					6100	5.1
1965	6517	5.4					6900	5.7
1966	6383	5.2					7000	5.7
1967	6684	5.4					7400	6.0
1968	6348	5.1					7400	5.9
1969	6535	5.2					7700	6.1
1970	6479	5.1					7600	6.0
1971	7022	5.5					8100	6.3
1972	7673	5.9					8700	6.7
1973	7449	5.7					8400	6.4
1974	7989	6.0					8929	6.7
1975	8140	6.1					8940	6.7
1976	6446	4.8					7686	5.7
1977	6642	4.9					7885	5.8
1978	6698	4.9					7807	5.7
1979	7006	5.1					8118	5.9
1980	7119	5.1					7889	5.7
1981	6649	4.7					7460	5.3
1982	6926	4.9					7712	5.5
1983	7140	5.0					7902	5.5
1984	7518	5.2					8284	5.8
1985	6799	4.7					7509	5.2

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## Finland

Table B

Total sales of tobacco products, 1974-85

Year	cigarettes 000s	cigarettes kgs (assuming .96g per cig)	Cigars 000s	Cigars kgs (assuming 2g per cgr)	pipe & cigarette tobacco kgs	Snuff & chewing tobacco kgs	Total weight kgs
1974	7,988,988	7,669,428	132,654	265,308	967,985	26,443	8,929,164
1975	8,140,044	7,814,442	143,129	286,258	811,755	27,233	8,939,688
1976	6,446,283	6,188,432	135,699	271,398	1,197,665	28,425	7,685,920
1977	6,641,985	6,376,306	94,038	188,076	1,292,479	28,073	7,884,934
1978	6,698,422	6,430,485	82,898	165,796	1,179,820	30,770	7,806,871
1979	7,006,751	6,726,481	76,361	152,722	1,207,985	30,750	8,117,938
1980	7,118,973	6,834,214	63,527	127,054	905,127	22,662	7,889,057
1981	6,648,576	6,382,633	60,037	120,074	930,473	26,533	7,459,713
1982	6,926,253	6,649,203	53,862	107,724	927,738	27,478	7,712,143
1983	7,140,400	6,854,784	58,248	116,496	905,572	25,048	7,901,900
1984	7,518,369	7,217,634	64,391	128,782	912,151	24,520	8,283,087
1985	6,798,658	6,526,712	52,193	104,386	851,170	26,605	7,508,873

Table C

% of tobacco consumed in different forms, by weight, 1974-85

Year	%cigarettes	%cigars	%pipe & cigarette tobacco	%snuff & chewing tobacco
1974	85.89	2.97	10.84	.30
1975	87.41	3.20	9.08	.30
1976	80.52	3.53	15.58	.37
1977	80.87	2.39	16.39	.36
1978	82.37	2.12	15.11	.39
1979	82.86	1.88	14.88	.38
1980	86.63	1.61	11.47	.29
1981	85.56	1.61	12.47	.36
1982	86.22	1.40	12.03	.36
1983	86.75	1.47	11.46	.32
1984	87.14	1.55	11.01	.30
1985	86.92	1.39	11.34	.35

2501185884

frequency product source year	age group																				all ages													
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +												
60 14 U U				58																														
61 14 U U				57																														
62 3 UC U														61	59	54	51	44																
63 14 U U				58																														
64 14 U U				56																														
65 14 U U				57																														
66 14 U U				53																														
66 17 A U	8			44					60		58		49									46												
67 2 U U					50																													
67 14 U U				50																														
67 18 UC U				37					55		52		56		50		46		35															
68 14 U U				48																														
69 14 U U				48																														
70 2 U U					44																													
70 14 U U				44																														
71 4 UC U							48		60		50		40		34		54		44		41													
71 14 U U				45																														
71 17 A U				37					56		56		51		38									46										
72 14 U U				46																														
73 1 A A				46																														
73 2 U U					44																													
73 9 U R				18				39				44																						
73 14 U U				44																														
74 1 A A				42																														
75 1 A A				42																														
75 7 UC U							39		49		44		46		43		40		42		42		35		29		27		14					
75 14 U U				40																														
76 1 A A				40																														
76 14 U U				34																														
76 20 U U				38					43		40		41		34		26										38							
76 21 U U	1			11				29				40																						
77 1 A A				40																														
77 9 TC R				11				30				41																						
77 14 U U				40																														
78 1 A A				37																														
78 5 UC U		13					40			48		33		36		27		28		29		30		26		25		27		3		16		
78 13 U R				32					37					32																				
78 13 U A				41					45					38																				
78 14 U U				33																														
78 16 U R				37					47		36		35										39											
79 1 A A				40																														
79 6 UC U		25						44		50		50		42		39		36		34		39		28		33								
79 9 TC R				9				25				34																						
79 13 U R				26					38					38																				
79 13 U A				35					46					41																				

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 Frequency: A all smokers (including occasional), R regular or daily smokers  
 All ages: relevant to ages used and as given in original source

2501185885



frequency product source year	age group																				all ages			
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +		
79 14 U U				35																				
79 16 U R				40						43		38		31									37	
80 1 A A				39																				
80 13 U R				31						41				34										
80 13 U A				38						48				38										
80 14 U U				37																				
80 15 U U				27						41	46	50	41	38	40	29	38	27						40
80 16 U R				34						47		38		31									38	
80 19 U R	1			11			37																	
80 19 U A	10			33			58																	
81 9 TC R			15			30			36															
81 13 U R				30						43				35										
81 13 U A				37						49				40										
81 14 U U				37																				
81 15 U U				26						42	48	46	44	41	35	34	34	34						40
81 16 U R				34						46		41		33									38	
82 13 U R				24						39				32										
82 13 U A				33						45				37										
82 15 U U				18						43	45	41	36	34	36	31	29	29						35
82 22 UC R										34		29		32		27							29	
82 22 A A										47		37		39		34							37	
82 23 UC R										38		34		35		29							33	
82 23 A A										52		45		43		41							43	
82 24 UC R										42		32		27		32							30	
82 24 A A										54		44		34		37							39	
83 9 TC R			15			27			34															
83 13 U R				29						37				28										
83 13 U A				36						43				32										
83 15 U U				16						36	41	47	41	34	33	38	35	26						36
84 13 U R				27						36				31										
84 13 U A				34						41				35										
84 15 U U				24						36	46	44	40	43	31	36	39	30						38
85 9 TC R			13			28																		
85 11 MC R				30						34				27										
85 11 A R				30						38				34										
85 11 A A				43						48				37										

2501185886

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

frequency product source year	age group																				all ages														
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +													
60 14 U U				14																															
61 14 U U				12																															
62 3 UC U																																			
63 14 U U				13																															
64 14 U U				16																															
65 14 U U				14																															
66 14 U U				15																															
66 17 A U	0		8					24			16		12										13												
67 2 U U					15																														
67 14 U U				15																															
67 18 UC U				19					25		16		16		9		4		2																
68 14 U U				19																															
69 14 U U				17																															
70 2 U U					16																														
70 14 U U				16																															
71 4 UC U							30		29		30		16		24		18		20		12														
71 14 U U				18																															
71 17 A U				30					42		29		20		12										23										
72 14 U U				19																															
73 1 A A				22																															
73 2 U U					20																														
73 9 U R			21				32				40																								
73 14 U U				20																															
74 1 A A				20																															
75 1 A A				22																															
75 7 UC U							38		36		30		24		19		14		12		14		9		7		5		2						
75 14 U U				17																															
76 1 A A				20																															
76 14 U U				17																															
76 20 U U				25					28		16		13		9		3						17												
76 21 U U	1		14				27				31																								
77 1 A A				19																															
77 9 TC R			15				27				32																								
77 14 U U				17																															
78 1 A A				19																															
78 5 UC U			19					32			28		23		14		18		14		14		11		5		7		4		3		0		
78 13 U R				26					22					9																					
78 13 U A				37					30					12																					
78 14 U U				17																															
78 16 U R				28					25		16		9												19										
79 1 A A				19																															
79 6 UC U			22						37		40		27		27		16		12		13		9		6		6								
79 9 TC R			9				25				26																								
79 13 U R				21					19					10																					
79 13 U A				33					27					13																					

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 Frequency: A all smokers (including occasional), R regular or daily smokers  
 All ages: relevant to ages used and as given in original source

2501185887

frequency product source year	age group																					all ages						
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +							
79 14 U U				16																								
79 16 U R				31						26			19			11									20			
80 1 A A				21																								
80 13 U R				19						18						12												
80 13 U A				27						25						13												
80 14 U U				16																								
80 15 U U				23						31	32	22	21	14	13	13	9	6							19			
80 16 U R				27						26			16			9									18			
80 19 U R	0			10		23																						
80 19 U A	4			37		49																						
81 9 TC R			12		25		26																					
81 13 U R				20						20						12												
81 13 U A				31						28						14												
81 14 U U				17																								
81 15 U U				21						36	34	27	24	17	15	15	12	6							21			
81 16 U R				27						30			20			11									21			
82 13 U R				19						21						11												
82 13 U A				26						28						14												
82 15 U U				19						29	24	25	22	20	11	10	10	9							19			
82 22 UC R										21			11			8			5									8
82 22 A A										28			20			12			8									14
82 23 UC R										21			12			11			5									10
82 23 A A										34			17			16			8									14
82 24 UC R										26			22			13			12									16
82 24 A A										40			28			17			15									21
83 9 TC R			13		23		25																					
83 13 U R				18						21						12												
83 13 U A				27						27						14												
83 15 U U				23						29	31	32	26	19	15	10	14	10							22			
84 13 U R				15						21						11												
84 13 U A				24						27						13												
84 15 U U				14						29	28	32	26	19	14	14	10	7							20			
85 9 TC R			10		25																							
85 11 MC R				18						21						9												
85 11 A R				19						22						10												
85 11 A A				29						29						14												

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 Frequency: A all smokers (including occasional), R regular or daily smokers  
 All ages: relevant to ages used and as given in original source

2501185888

## E Finland

## Male Cigarettes per smoker per day

product source year	age group																				all ages				
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +			
63 3 UCI														18	17	16	15	14							
71 4 UCI							18	19	19	21	20	21	20	17											
75 7 UCI							12	15	17	18	17	18	18	17	18	15	14	12							
77 9 MC				7.5		9.9		13																	
78 5 UCI		10					16		20	20	21	22	21	21	22	18	18	17	24	15					
78 16 A				15					19		21		17										18		
79 6 UCI		13					18		19	21	21	22	21	21	20	19	17								
79 9 MC				7.4		11		13																	
79 16 A				14					17		19		19									17			
80 16 A				14					18		19		17									17			
80 19 UC				7.1		12																			
81 9 MC				7.6		10		12																	
81 16 A				14					19		19		17									18			
83 9 MC				7.9		12		13																	
85 9 MC				9.7		12		14																	
85 11 MC				14					19				19									18			

## E Finland

## Female Cigarettes per smoker per day

product source year	age group																				all ages		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +	
63 3 UCI																							
71 4 UCI							9.5		10	12	12	11	14	13	11								
75 7 UCI							9.0		10	11	12	11	11	12	11	9.6	9.7	9.8	6.8				
77 9 MC				5.2		7.9		8.9															
78 5 UCI		10					12			14	19	16	15	12	12	12	18	16	22	7.9	0.0		
78 16 A				9.6					12			14			13								12
79 6 UCI		9.5					12			13	14	14	14	16	16	14	13	13					
79 9 MC			7.2		8.3		9.2																
79 16 A				10					13			12			12								12
80 16 A				9.7					12			14			12								12
80 19 UC				6.4		9.0																	
81 9 MC			6.3		6.8		8.8																
81 16 A				12					12			16			13								13
83 9 MC			6.9		8.9		10																
85 9 MC			7.6		11		11																
85 11 MC				9.9					13					14								12	

2501185889

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

I indicates mean calculated from %s in intervals

All ages: relevant to ages used and as given in original source

## F Finland Male Cigarettes per person per day

product source year	age group																				all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		
63 3 UC	11 9.7 8.7 7.6 6.1																				***	
71 4 UC	8.6 12 9.5 8.5 6.6 12 8.7 6.7																				***	
75 7 UC	4.7 7.0 7.3 8.2 7.4 7.0 7.4 7.2 6.3 4.4 3.8 1.7																				65% <sub>m</sub>	
77 9 MC *	0.8 3.0 5.4																				***	
78 5 UC	1.4 6.4 9.7 6.5 7.4 6.0 5.7 6.1 6.8 4.6 4.4 4.5 0.7 2.5																				84% <sub>m</sub>	
78 16 A	5.7 8.8 7.6 6.1																			7.0	85% <sub>m</sub>	
79 6 UC	3.1 7.7 9.6 10 9.0 8.5 7.6 7.0 7.7 5.3 5.7																				97% <sub>m</sub>	
79 9 MC *	0.7 2.7 4.5																				***	
79 16 A	5.6 7.5 7.3 5.7																			6.5	78% <sub>m</sub>	
80 16 A	4.8 8.6 7.1 5.3																			6.5	75% <sub>m</sub>	
80 19 UC	0.8 4.5																				***	
81 9 MC *	1.1 3.0 4.5																				***	
81 16 A	4.7 8.6 7.9 5.6																			6.7	88% <sub>m</sub>	
83 9 MC *	1.2 3.2 4.3																				***	
85 9 MC *	1.3 3.3 4.6																				***	
85 11 MC	4.2 6.3 5.3																				72% <sub>m</sub>	

## F Finland Female Cigarettes per person per day

product source year	age group																				all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		
63 3 UC																						***
71 4 UC																						***
75 7 UC																						65% <sub>m</sub>
77 9 MC *																						***
78 5 UC																						84% <sub>m</sub>
78 16 A																					2.2	85% <sub>m</sub>
79 6 UC																						97% <sub>m</sub>
79 9 MC *																						***
79 16 A																					2.3	78% <sub>m</sub>
80 16 A																					2.1	75% <sub>m</sub>
80 19 UC																						***
81 9 MC *																						***
81 16 A																					2.7	88% <sub>m</sub>
83 9 MC *																						***
85 9 MC *																						***
85 11 MC																						72% <sub>m</sub>

2501185890

U unspecified \* refer to notes  
 Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 All ages: relevant to ages used and as given in original source  
 % total sales: % of national sales of M manufactured or T total cigarettes implied by survey  
 m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown  
 \*\*\* cannot be calculated --- adjusted by original author

## G Finland Male Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		
63 3 UC	〈 11 9.7 8.7 7.6 6.1〉																					***
71 4 UC	8.6 12 9.5 8.5 6.6 12 8.7 6.7																					***
75 7 UC	7.3 11 11 13 11 11 11 9.7 6.8 5.9 2.6																					65% <sub>m</sub>
77 9 MC *	0.8 3.0 5.4																					***
78 5 UC	1.7 7.7 12 7.8 8.8 7.2 6.8 7.3 8.1 5.5 5.3 5.4 0.8 3.0																					84% <sub>m</sub>
78 16 A	6.7 10 8.9 7.1																				8.2	85% <sub>m</sub>
79 6 UC	3.2 7.9 9.9 11 9.2 8.7 7.8 7.2 7.9 5.4 5.9																					97% <sub>m</sub>
79 9 MC *	0.7 2.7 4.5																					***
79 16 A	7.2 9.6 9.3 7.3																				8.3	78% <sub>m</sub>
80 16 A	6.4 11 9.5 7.1																				8.7	75% <sub>m</sub>
80 19 UC	0.8 4.5																					***
81 9 MC *	1.1 3.0 4.5																					***
81 16 A	5.3 9.8 9.0 6.4																				7.6	88% <sub>m</sub>
83 9 MC *	1.2 3.2 4.3																					***
85 9 MC *	1.3 3.3 4.6																					***
85 11 MC	5.8 8.7 7.4																					72% <sub>m</sub>

## G Finland Female Cigarettes per person per day adjusted

product source year	age group																					all ages	% total sales	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +			
63 3 UC																							***	
71 4 UC								2.9	3.1	3.5	1.9	1.5	2.5	2.7	1.3									***
75 7 UC								5.2	5.6	5.1	4.5	3.2	2.3	2.2	2.2	1.4	0.9	0.8	0.2					65% <sub>m</sub>
77 9 MC *				0.8		2.1		2.8																***
78 5 UC		2.4					4.4			4.8	5.1	2.8	3.2	1.9	2.0	1.6	1.1	1.2	1.0	0.2	0.0		84% <sub>m</sub>	
78 16 A					3.2				3.6			2.6			1.4								2.6	85% <sub>m</sub>
79 6 UC		2.1					4.4			5.2	3.8	3.9	2.3	2.0	2.3	1.3	0.8	0.8						97% <sub>m</sub>
79 9 MC *				0.6		2.1		2.4																***
79 16 A					4.1				4.3			2.8			1.5								2.9	78% <sub>m</sub>
80 16 A					3.5				4.0			3.1			1.5								2.8	75% <sub>m</sub>
80 19 UC					0.6		2.1																***	
81 9 MC *				0.8		1.7		2.3																***
81 16 A					3.6				4.1			3.6			1.7								3.1	88% <sub>m</sub>
83 9 MC *				0.9		2.0		2.5																***
85 9 MC *				0.8		2.7		2.6																***
85 11 MC					2.5				3.6				1.8										72% <sub>m</sub>	

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

2501185891

Table H FINLAND

year	source	product /freq code	% SMOKERS			product code	CIGARETTES PER MAN & PER WOMAN		product adjust factor	ADJUSTED to MAN CIGS		ADJUSTED to TOT CIGS	
			man cigs m w	tot cigs m w	all prods m w		ORIGINAL per man per woman	per man per woman		per man per woman	per man per woman		
40													
41													
42													
43													
44													
45													
46													
47													
48													
49													
50													
51													
52													
53													
54													
55													
56													
57													
58													
59													
60	14	U/U			56 13								
61	14	U/U			55 11								
62													
63	14	U/U			56 12								
64	14	U/U			54 14								
65	14	U/U			55 13								
66	14	U/U			51 13								
67	2	U/U			49 15								
	14	U/U			49 13								
	18	UC/U		50 14					m	(	9.0	2.1)	
68	14	U/U			47 17								
69	14	U/U			47 15								
70	2	U/U			43 16								
	14	U/U			43 14								
71	14	U/U			44 16								
	17	A/U			45 20								
72	14	U/U			44 17								
73	1	A/A			46 22								
	2	U/U			43 20								
	14	U/U			43 17								
74	1	A/A			42 20								
75	7	UC/U		39 18		UCI	6.2	1.9	m	65	9.6	2.9	
	1	A/A			42 22								
	14	U/U			38 15								
76	1	A/A			40 20								
	14	U/U			33 15								
	20	U/U			38 17								
77	1	A/A			40 19								
	14	U/U			38 15								
78	5	UC/U		30 16		UCI	6.1	2.3	m	84	7.2	2.7	
	16					A	6.7	1.9	m	85	7.8	2.2	
	1	A/A			37 19								
	13	U/R			33 16								
	13	U/A			40 22								
	14	U/U			32 15								
	16	U/R			37 16								
79	6	UC/U		38 19		UCI	7.6	2.5	m	97	7.8	2.6	
	16					A	6.1	2.1	m	78	7.8	2.6	
	1	A/A			40 19								
	13	U/R			33 14								
	13	U/A			40 20								
	14	U/U			34 14								
	16	U/R			36 17								
80	16					A	6.0	1.8	m	75	8.0	2.5	
	1	A/A			39 21								
	13	U/R			35 14								
	13	U/A			41 19								
	14	U/U			36 14								
	15	U/U			37 17								
	16	U/R			35 16								
81	16					A	6.2	2.3	m	88	7.1	2.6	
	13	U/R			36 15								
	13	U/A			41 21								
	14	U/U			36 15								
	15	U/U			38 19								

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France

Source  
number

- 1      Ref:      Surveys by SOFRES for SEITA  
         GFT table no: 2.1, 2.2  
         Note: 1. Confidential  
              2. Merzdorf (1982) quotes slightly different figures  
              3. Guesstimates for age 76+, 1980, % smokers, Male:25;  
                  Female:5
  
- 2      Ref:      Tuyns and Hu (1982) and Dr.A.J.Tuyns (private  
                  communication)  
         GFT table no: 2.3,2.5,3.3  
         Note: 1. Department of Calvados. Tuyns and Hu have claimed  
                  (p.176) that "Calvados can...be considered as an  
                  average French département with regard to tobacco  
                  consumption". The sample in Calvados selected by Tuyns  
                  and Hu contained 2,591 persons aged 20+ from which they  
                  obtained 1,976 informants (From Todd (1986) p.120)  
              2. There was only 1 female smoker of products other than  
                  cigarettes  
              3. Guesstimates for age 15-19, % smokers A; Male:50;  
                  Female:40. % smokers TC, Male:40; Female:40. % smokers  
                  MC, Male:35; Female:35. Cigs per person, Male:5.0;  
                  Female:4.0
  
- 4      Ref:      World Health Organization, Regional Office for Europe,  
                  1975 quoting statistics from SEITA  
         GFT table no: 2.6
  
- 5      Ref:      Survey by SOFRES for CFES (also from Merzdorf 1982)  
         GFT table no: 2.7  
         Note: 1. Sample of 1050 persons in September (see also table 18)  
              2. Guesstimates for age 15-17, % smoker A, Male:50;  
                  Female:30. % smokers UC, Male:40; Female:30
  
- 6      Ref:      Age 12-17 - Survey by SOFRES for CFES, in 1978 Age 18+  
                  - two surveys by SOFRES for CFES, in 1979  
         GFT table no: 2.7  
         Note:    Age 12-17 - sample of 1000 persons  
                  Age 18+ - each sample of 1100 persons
  
- 7      Ref:      Age 12-17 - survey by BVA for CFES, in 1980  
                  Age 18+ - two surveys by SOFRES for CFES, in 1980 and  
                  1981  
         GFT table no: 2.7, 3.1  
         Note:    Age 12-17 - sample of 1200 persons  
                  Age 18+ - each sample of 1100 persons

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- 8 Ref: Survey by Société BVA in May 1983 for CFES (From Todd (1986) p.133)  
GFT table no: 2.8  
Note: Based on interviews with 950 men and 1050 women
- 9 Ref: Neukirch et al (1982) and Neukirch & Cooreman (1983) (From Todd (1968) p.139)  
GFT table no: 5.2  
Note: Based on a survey of 2266 children in a school in Paris, who smoked at least one cigarette a day
- 10 Ref: Davidson et al (1973) and (1980)  
GFT table no: 5.3  
Note: 1. Regular smokers were those who smoked daily.  
2. Studies of secondary pupils in Paris and the Paris region, Rennes and département (Bretagne) and Marseille and département (Bouches-du-Rhone) during 1971 and 1978/79. Sample size 1971: 2339, 1978/9: 2088  
3. 1971 survey: Prevalences have been averaged over the 3 regions. Consumption levels calculated excluding about 10% of boys in each age group who smoked pipes, and 10-35% of boys and 35-45% of girls with amount unknown  
4. Interval estimation based on <5,5-9,10-19,20+
- 11 Ref: Hill and Flamant (1985), Table II  
Note: Guesstimates for age 15-16, 1974 and 1982 only, % smokers, Male:25; Female 1974:20, 1982:25
- 12 Ref: Surveys by SOFRES for CFES (From Todd (1986) p.138)  
GFT table no: 5.1
- 13 Ref: Todd (1986)  
GFT table no: 3.2  
Note: 1. Consumption per regular cigarette smoker calculated by Todd from BVA-CFES survey (Source 8)  
2. Consumption per person based on % of smokers of any product. Other tables suggest this is appropriate for women, but will OVERESTIMATE FOR MEN
- 14 Ref: Todd (1986) p.126  
GFT table no: 4  
Note: Estimated by Todd
- 15 Ref: Cooreman et al (1978) Table II  
Note: Based on a survey of all 30,000 schoolchildren age 13-19 in Bas-Rhin, in spring 1976
- 16 Ref: Merzdorf (1982), quoting SEITA
- 17 Ref: Merzdorf (1982), quoting Readers Digest (1963)  
Note: Guesstimates for age 15-20, % smokers A, Male:50; Female:15. % smokers UC, Male:45; Female:15

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- 18      Ref:      Merzdorf (1982), quoting CFES  
Note: 1. Figures for regular smokers are stated to be for cigarette smokers but appear to have been calculated from smokers of any product  
2. Hill and Flamant (1985) quote the adult figures as age 17+  
3. Guesstimates for age 15-17, % smokers A, Male 1976,77:50, 1979:30, Female:1976,77:35, 1979:25. % smokers UC, Male 1976:40, 1979:25; Female 1976:30, 1979:25  
4. 1976-December. 1977-June. 1979-November.
- 19      Ref:      Wynder et al (1981)  
Note: 1. Sample size 2163M, 1290F randomly selected in 65 (/95) départements. Subjects selected as they left factories, stores etc. Approx. 90% response. Further 8% excluded due to history of alcoholism or psychiatric conditions  
2. Includes those who had given up smoking within the last year  
3. Guesstimates for 1976, age 15-19, Male:50, Female:40, age 81+, Male:40; Female:5
- 21      Ref:      Survey in 1974 by SOFRES for the Délégation à la Sécurité Routière and the Comité national contre le Tabagisme. Cited by Hill and Flamant (1985) and Todd (?)  
Note: 1. Not clear if age 17+ or 18+  
2. Guesstimates for age 15-16, % smoker, Male:30; Female:20
- 22      Ref:      Comité National contre la Tabagisme (1982)  
Note: 1. 1001 people representative of the working population  
2. Interval estimation based on  $\leq 5, 5-10$  (assumed 6-10), 11-20, 21+  
3. Guesstimates for age 15, % smokers, Male and Female:15. Cigs per person, Male and Female:1.0. For age 65+, % smokers Male:30; Female:7. Cigs per person, Male:4.0, Female:0.5
- 23      Ref:      SEITA, IFOP
- 24      Ref:      Bernard and Boyer (1976)  
Note: 1. Studies at beginning and end of military service. Sample size 70,000, of whom 50% were age 19, 20% age 21  
2. Numbers of cigarettes includes equivalents of 1 pipe or cigarillo = 2 cigarettes, 1 cigar = 5 cigarettes  
3. Interval estimation based on <10, 10-20, >20  
4. Results for individual ages 20-24 have been averaged
- 25      Ref:      Bernard et al (1980)  
Note: 1. Part of study on anti-smoking campaign during military service  
2. As notes 2 and 3, table 24

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- 26 Ref: Nahas et al (1986)  
 Note: 1. 18390 subjects from 12 départements in the south-west, working for administration of Sécurité Sociale and PTT, volunteers in good health at health check  
 2. Upper age limit is unclear  
 3. Guesstimates for age 65+, % smokers, Male:30; Female:5. Cigs per person, Male:5.0; Female:1.0  
 Omit?
- 27 Ref: Cooreman et al (1985) quoting Cooreman et al (1982)(a)  
 Note: 1. Bas Rhin, age group uncertain  
 2. Sample size 7963
- 28 Ref: Cooreman et al (1985) quoting Cooreman et al (1982)(b)  
 Note: 1. Bordeaux, age group uncertain  
 2. Sample size 15247
- 29 Ref: WHO (1978) quoting SEMA, SOFRES
- 30 Ref: ITL Market Research Dept.  
 Note: 1. Confidential  
 2. Nationally representative consumer survey, sample size 2000
- 31 Ref: Comité Français d'éducation pour la santé (1981)
- 32-33 Ref: WHO (1989)  
 Note: 1. 2 regional surveys forming part of WHO MONICA Project
- | Region           | Population size | Sample size | Participation rate% | Sample used<br>M F | Date        |
|------------------|-----------------|-------------|---------------------|--------------------|-------------|
| 32 Bas-Rhin      | 314200          | -           | 66                  | 731 792            | 01.85-09.87 |
| 33 Haute-Garonne | 296900          | 2264        | 58                  | 678 645            | 05.85-02.87 |
- (whole country 19.4mn)  
 For Bas-Rhin, sample used and participation rate include age 25-34, all other figures are for age 35-64 only.
2. Overall % relates only to age 35-64.  
 3. Regular cigarette smokers defined as those who smoked cigarettes every day. All smokers additionally includes those who smoked cigarettes occasionally, or lg. pipe tobacco per week, or 1 cigar per week.  
 4. Survey in Lille has been omitted, since it was carried out after the period considered in this report
- 34 Ref: Geizerova and Masironi (1987)  
 Note: No original reference given

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General note

Scarferlatis is fine cut tobacco for HR and pipe.

Data for man. cigs from 1905-1930, Ref: Hill and Flamant (1985). For 1974 onwards, Ref: SEITA. Some data for 1861-1889 are also available from SEITA.

There is little evidence on which to base estimates of HR consumption.

Merzdorf et al. (1982) state that consumption of fine-cut for HR cigarettes dropped from 18 billion in 1960 to 7 billion in 1980. However their figures appear to allocate all scaferlatis sales to HR smoking, ignoring pipes, which (survey source 1) were smoked by 16% of men in 1976.

We have estimated HR consumption as 90% of scaferlatis, assuming 1g per cigarette. Comparing this with 1978 %s reported by Tuyns and Hu (1982) (survey source 2), this estimates HR cigarettes as 7% of total cigarette consumption, compared with approximately 9% of cigarette smokers smoking HR only and a further 8% smoking both (sexes combined).

Notes to Table B

1. From 1974 onwards, data are not available separately for sales of cigars and cigarillos, nor for snuff and chewing tobacco.
2. Cigarette consumption in tonnes was estimated from the number of cigarettes by using a conversion factor of 1.2g per cigarette, based on the value used in RP6. The conversion factor for cigars/cigarillos combined was 3g; this figure was calculated as the approximate average of the factors 4.0g per cigar and 1.6g per cigarillo (used in RP6) weighted by the numbers of cigars and cigarillos smoked in 1970-73.

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France

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Table A FRANCE

Consumption of Cigarettes and of All Tobacco  
Sales based data, including estimates of consumption of handrolled cigarettes

Year	Manufactured Cigarettes		Hand-rolled Cigarettes		Total Cigarettes		Total Tobacco	
	total millions annual	n per adult daily	total millions annual	n per adult daily	total millions annual	n per adult daily	total tonnes annual	grams per adult daily
19 5	2000	0.2						
1910	3000	0.3						
1915	4000	0.4						
1920	5000	0.5						
1925	10000	0.9						
1930	17000	1.5						
1932	18186	1.6					58400	5.0
1933	17861	1.6					57700	5.0
1934	17045	1.5					56200	4.9
1935	16464	1.4					53800	4.7
1936	16952	1.5					54600	4.8
1937	17674	1.5					54200	4.7
1938	18253	1.6					54500	4.8
1939	19902	1.7					58700	5.1
1940	18527	1.7					55000	5.0
1941	14924	1.4					44400	4.1
1942	10918	1.0					30100	2.7
1943	10001	0.9					25600	2.3
1944	8878	0.8					21300	1.9
1945	13233	1.2					32000	2.8
1946	18433	1.6					42400	3.7
1947	24274	2.1					55000	4.7
1948	26089	2.2					59900	5.1
1949	27415	2.3					55800	4.7
1950	30418	2.6	19350	1.6	49768	4.2	60100	5.1
1951	32875	2.8	17820	1.5	50695	4.3	61300	5.2
1952	33824	2.8	16470	1.4	50294	4.2	61000	5.1
1953	36415	3.1	16560	1.4	52975	4.5	64100	5.4
1954	36801	3.1	16200	1.4	53001	4.4	64100	5.4
1955	38315	3.2	15660	1.3	53975	4.5	65400	5.5
1956	41059	3.4	15750	1.3	56809	4.7	68900	5.7
1957	42919	3.6	16020	1.3	58939	4.9	71700	5.9
1958	44422	3.7	16470	1.4	60892	5.0	74100	6.1
1959	42284	3.5	15930	1.3	58214	4.8	70900	5.8
1960	44904	3.7	16200	1.3	61104	5.0	74500	6.1
1961	46638	3.8	16290	1.3	62928	5.1	76700	6.2
1962	48247	3.8	16560	1.3	64807	5.1	78900	6.2
1963	49960	3.9	16560	1.3	66520	5.1	81200	6.3
1964	50767	3.9	15570	1.2	66337	5.1	81200	6.2
1965	54533	4.1	14940	1.1	69473	5.2	85300	6.4
1966	57053	4.3	14400	1.1	71453	5.3	87800	6.6
1967	60377	4.5	13950	1.0	74327	5.5	91300	6.8
1968	63282	4.6	14040	1.0	77322	5.7	95000	7.0
1969	65844	4.7	12870	0.9	78714	5.6	97000	7.0
1970	69650	4.9	11970	0.8	81620	5.8	100600	7.1
1971	72143	5.1	11250	0.8	83393	5.9	103100	7.2
1972	72070	5.0	10350	0.7	82420	5.7	102300	7.1
1973	75379	5.2	9630	0.7	85009	5.8	105700	7.3
1974	80500	5.5	9270	0.6	89770	6.1	111490	7.6
1975	84800	5.7	8730	0.6	93530	6.3	116650	7.9
1976	83900	5.6	7830	0.5	91730	6.2	115170	7.7
1977	86400	5.7	7470	0.5	93870	6.2	118350	7.9
1978	84900	5.6	6840	0.5	91740	6.1	115540	7.6
1979	87900	5.8	6570	0.4	94470	6.2	118760	7.8
1980	87600	5.7	6390	0.4	93990	6.1	118440	7.7
1981	87100	5.6	6210	0.4	93310	6.0	117550	7.6
1982	87900	5.6	6210	0.4	94110	6.0	117890	7.5
1983	89600	5.7	6030	0.4	95630	6.1	119430	7.6
1984	91153	5.7	5822	0.4	96975	6.1	120897	7.6
1985	96209	6.0	5895	0.4	102104	6.4	127652	8.0

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France

Table B

Total sales of tobacco products, 1974-85

Year	Cigarettes millions	Cigarettes tons (assuming 1.2g per cig)	Cigars & cigarillos millions	Cigars & cigarillos tons (assuming 3g per ci)	Scaferlati tons	Chewing tobacco & snuff tons	Total Weight
1974	80,500	96,600	1,300	3,900	10,300	690	111,490
1975	84,800	101,760	1,500	4,500	9,700	690	116,650
1976	83,900	100,680	1,700	5,100	8,700	690	115,170
1977	86,400	103,680	1,900	5,700	8,300	670	118,350
1978	84,900	101,880	1,800	5,400	7,600	660	115,540
1979	87,900	105,480	1,800	5,400	7,300	580	118,760
1980	87,600	105,120	1,900	5,700	7,100	520	118,440
1981	87,100	104,520	1,900	5,700	6,900	430	117,550
1982	87,900	105,480	1,700	5,100	6,900	410	117,890
1983	89,600	107,520	1,600	4,800	6,700	410	119,430
1984	91,153	109,384	1,551	4,653	6,469	391	120,897
1985	96,209	115,451	1,749	5,247	6,550	404	127,652

Table C

% of tobacco consumed in different forms, by weight, 1974-85.

Year	%cigarettes & cigarillos	%cigars	%scarfelati	%chewing tobacco & snuff
1974	86.64	3.50	9.24	.62
1975	87.24	3.86	8.32	.59
1976	87.42	4.43	7.55	.60
1977	87.60	4.82	7.01	.57
1978	88.18	4.67	6.58	.57
1979	88.82	4.55	6.15	.49
1980	88.75	4.81	5.99	.44
1981	88.92	4.85	5.87	.37
1982	89.47	4.33	5.85	.35
1983	90.03	4.02	5.61	.34
1984	90.48	3.85	5.35	.32
1985	90.44	4.11	5.13	.32

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frequency product source year	age group																				all ages							
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +						
53 11 U U				77																								
60 16 MC R				45																								
60 16 MC U				57																								
60 16 A U				73																								
63 17 UC U									59																			
63 17 A U									66																			
65 11 U U				72																								
67 1 MC R				43																								
67 1 MC R				47																								
67 1 MC A				62																								
67 1 MC A				73																								
67 1 A A				72																								
68 29 U U									75								72		65									
71 10 U R				21		33		47		51																		
71 10 U A				60		64		69		70																		
71 24 A U							81		80		76												78					
73 4 U U																												
73 16 MC U				64																								
73 30 UC U				64						74				53				54				43				59		
74 11 U U							59																					
76 1 MC R				40																								
76 1 MC A				55																								
76 1 A A				62																								
76 5 UC U								57																				
76 5 A U								74				62				64				51				54				60
76 21 U U							51																					
76 15 U U			20		27		35		40		44												33					
76 18 UC U									53																			
76 18 A U									57																			
76 19 UC U										64																		
76 31 U U	48							60																				
77 18 UC R	30							41																				
77 18 UC A	48							47																				
77 18 A U										51																		
78 2 MC R										45																		
78 2 TC R										61		59		63		52		39		33		28		50				
78 2 A R										64		65		67		56		43		40		36		54				
78 6 A U	31		48			65			58				52		55			46			40				50			
78 9 UC R	5		20			40			38																			
78 10 U R				10		22		30		40																		
78 25 UC U										55																		
78 25 A U										73																		
79 18 UC U									44																			
79 18 A U									48																			
79 16 MC R				37																								

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 Frequency: A all smokers (including occasional), R regular or daily smokers  
 All ages: relevant to ages used and as given in original source

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frequency product source year	age group																				all ages		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +	
79 16 MC A				42																			
79 16 A U				50																			
79 27 U U				26																			
80 1 MC R	35								45				40				25					38	
80 7 A U	26		46		63		67			59			50			46			32			49	
80 11 U R				44																			
80 23 MC U				45																			
80 23 A U				52																			
81 22 UC U					49																		
81 28 U U			36																				
81 31 U U	43							50															
82 11 U U						49																	
83 8 A R					56					61			54			44			32			50	
84 26 UC U					56					60			55		57		64		68			59	
84 34 U U			18																				
85 32 UC R										51		46		28		27							34
85 32 A A										54		55		33		32							41
85 33 UC R												37		36		36							37
85 33 A A												45		43		40							43

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

2501185904

frequency product source year	age group																				all ages			
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +		
53 11 U U				35																				
60 16 MC R				12																				
60 16 MC U				28																				
60 16 A U				28																				
63 17 UC U									15															
63 17 A U									15															
65 11 U U				33																				
67 1 MC R				12																				
67 1 MC R				13																				
67 1 MC A				26																				
67 1 MC A				56																				
67 1 A A				32																				
68 29 U U				66						52									15					
71 10 U R				16		22		28		32														
71 10 U A				67		76		80		76														
71 24 A U																								
73 4 U U				66						50														
73 16 MC U				34																				
73 30 UC U				67						47			25			21			10			30		
74 11 U U							28																	
76 1 MC R				20																				
76 1 MC A				33																				
76 1 A A				33																				
76 5 UC U								30																
76 5 A U								56			39		26			17			7			31		
76 21 U U								27																
76 15 U U			15		22		31		34		38												28	
76 18 UC U								26																
76 18 A U								27																
76 19 UC U										42														
76 31 U U	43								31															
77 18 UC R	22							18																
77 18 UC A	43							29																
77 18 A U								29																
78 2 MC R										14														
78 2 TC R										41		21		16		13		7		3		1		14
78 2 A R										41		21		16		13		7		3		1		14
78 6 A U	20		46			63			49			33		20			16			7			26	
78 9 UC R	3		32			46			50															
78 10 U R				16		16		28		34														
78 25 UC U																								
78 25 A U																								
79 18 UC U								24																
79 18 A U								25																
79 16 MC R				22																				

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 Frequency: A all smokers (including occasional), R regular or daily smokers  
 All ages: relevant to ages used and as given in original source

2501185905

frequency product source year	age group																				all ages			
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +		
79 16 MC A				29																				
79 16 A U				30																				
79 27 U U			26																					
80 1 MC R	35								35				15				5					22		
80 7 A U	20		42		61		53			39			25			12			8				28	
80 11 U R			16																					
80 23 MC U				28																				
80 23 A U				28																				
81 22 UC U					40																			
81 28 U U			41																					
81 31 U U	45								26															
82 11 U U						26																		
83 8 A R					54					39			31			17			6				29	
84 26 UC U					56					44			27		17		13		9					27
84 34 U U			33																					
85 32 UC R										30		22		11		8								15
85 32 A A										31		28		13		9								18
85 33 UC R												24		16		10								17
85 33 A A												25		17		12								19

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

2501185906

E France

Male Cigarettes per smoker per day

product source year	age group																				all ages		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +	
71 10 UCI*				7	8	10	12	13															
71 24 AI							15	16	18													17	
74 21 UCI							15																
76 15 UC			9.3																				
78 2 TC									16	17	16	16	15	15	10						17		
78 25 AI											18												
79 27 UC			9.6																				
80 7 TC							16																
80 1 MC	14								20		23		15							19			
81 22 UCI					17																		
81 28 UC			9.5																				
83 13 UCI				14					18		18		17			14			17				
84 26 UC				15					18		18		19		17		16				18		

E France

Female Cigarettes per smoker per day

product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
71 10 UCI*				5	6	8	8	6														
71 24 AI																						
74 21 UCI							10															
76 15 UC			7.1																			
78 2 TC									11	11	12	11	11	8	3	11						
78 25 AI																						
79 27 UC			7.7																			
80 7 TC							11															
80 1 MC	11								14	11	8						12					
81 22 UCI					12																	
81 28 UC			8.0																			
83 13 UCI				11						11	14	10	11					12				
84 26 UC				13						14	15	13	13	14						8.9		

2501185907

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

I indicates mean calculated from %s in intervals

All ages: relevant to ages used and as given in original source

F France

Male Cigarettes per person per day

product source year	age group																					all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +		
71 24 A							12	13	14													13	***
76 15 UC				3.1																			***
78 2 TC									9.8	10		10			8.4	5.9		5.0		2.8		8.4	79%T
78 25 A								13															***
79 27 UC				2.5																			***
80 14 MC																							--- M
81 22 UC											8.3												93%T
81 28 UC				3.4																			***
83 13 UC *							7.8			11		9.7			7.5				4.5				96%T
84 26 UC							8.3			11		10		11		11		11				11	109%T

F France

Female Cigarettes per person per day

product source year	age group																					all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +		
71 24 A																							***
76 15 UC				2.0																			***
78 2 TC									4.5	2.3		1.9		1.4		0.8		0.2		0.0		1.5	79%T
78 25 A																							***
79 27 UC				2.0																			***
80 14 MC																							--- M
81 22 UC											4.8												93%T
81 28 UC				3.3																			***
83 13 UC *							5.9			4.3		4.3			1.7				0.7				96%T
84 26 UC							7.4			6.3		4.0		2.3		1.7		1.3				2.4	109%T

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

2501185908

## G France Male Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +	
71 24 A							12	13	14												13	***
76 15 UC				3.1																		***
78 2 TC									12	13		13		11		7.5		6.4		3.6	11	79%T
78 25 A								13														***
79 27 UC				2.5																		***
80 14 MC													8.6									--- M
81 22 UC												8.9										93%T
81 28 UC				3.4																		***
83 13 UC *							8.2			12		10			7.9				4.7			96%T
84 26 UC							7.6			9.7		9.3		9.8		10		10			9.6	109%T

## G France Female Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +	
71 24 A																						***
76 15 UC				2.0																		***
78 2 TC									5.7	2.9		2.4		1.8		1.0		0.3		0.0	1.9	79%T
78 25 A																						***
79 27 UC				2.0																		***
80 14 MC												3.2										--- M
81 22 UC												5.1										93%T
81 28 UC				3.3																		***
83 13 UC *							6.2			4.5		4.5			1.8				0.7			96%T
84 26 UC							6.8			5.8		3.7		2.1		1.6		1.2			2.2	109%T

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

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Table H FRANCE

year	source	% SMOKERS				CIGARETTES PER MAN & PER WOMAN							
		product /freq code	man cigs m w	tot cigs m w	all prods m w	product code	ORIGINAL		product adjust factor	ADJUSTED to MAN CIGS per man per woman		ADJUSTED to TOT CIGS per man per woman	
40													
41													
42													
43													
44													
45													
46													
47													
48													
49													
50													
51													
52													
53	11	U/U			77 35								
54													
55													
56													
57													
58													
59													
60	16	MC/R	45 12						M	( 6.2 1.3)			
	16	MC/U	57 28										
	16	A/U			73 28								
61													
62													
63	17	UC/U		57 15					t		( 8.8 1.8)		
	17	A/U			64 15								
64													
65	11	U/U			72 33								
66													
67	1	MC/R	43 12						M	( 7.5 1.7)			
	1	MC/A	62 26										
	1	A/A			72 32								
68													
69													
70													
71													
72													
73	16	MC/U	64 34						M	( 7.4 3.1)			
	30	UC/U		59 31					t		( 8.4 3.5)		
	11	U/U			58 28								
74													
75													
76	1	MC/R	40 20						M	( 8.2 3.3)			
	1	MC/A	55 33										
	1	A/A			62 33								
	5	UC/U		56 30					t		( 8.7 3.7)		
	5	A/U			60 27								
	21	U/U			50 27								
	18	UC/U		52 26					t		( 8.9 3.6)		
	18	A/U			57 28								
	19	UC/U		62 40					t		( 8.2 4.2)		
	31	U/U			58 33								
77	18	UC/R		40 18					t		( 9.2 3.4)		
	18	UC/A		47 31									
	18	A/U			51 29								
78	2	TC/R		51 17		TC	7.9 1.8		t 79		10.0 2.3		
	2	MC/R	44 16						M	( 8.8 2.6)			
	2	A/R			56 17								
	6	A/U			50 25								
79	18	UC/U		43 24					t		( 8.6 3.9)		
	18	A/U			47 25								
	16	MC/R	37 22						M	( 7.9 3.8)			
	16	MC/A	42 29										
	16	A/U			50 30								
80	14					MC	8.6 3.1		M ---	8.6 3.1			
	1	MC/R	37 20						M	( 8.0 3.5)			
	7	A/U			50 27								
	11	U/R			44 16								
	23	MC/U	45 28						M	( 7.7 3.8)			
	23	A/U			52 28								
81	22	UC/U		46 33		UCI	7.5 3.8		t 93		8.1 4.1		
	31	U/U			49 28								
82	11	U/U			48 26								
83	13					UCI*	8.4 3.3		t 96		8.8 3.5		
	8	A/R			51 29								

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84 | 26 | UC/U  
85 |

55 28

| UC

9.6

3.9 |

t 109

8.8

3.6

2501185911

Germany (Federal Republic)

Source  
number

- 1      Ref:      BZgA (1980) p.120  
         GFT table no: 2.1  
         Note:      Sample size 2,000
- 2      Ref:      IMW (1979?)  
         GFT table no: 2.2  
         Note: 1. Confidential  
             2. The definition of cigarette smokers is a combination of  
             2 categories - regular (5+ per day) and occasional (up  
             to 4 per day)  
             3. Presumably there were no female smokers of products  
             other than cigarettes
- 3      Ref:      Todd (1986) quoting EMNID-Institut  
         GFT table no: 2.4, 2.7  
         Note: 1. Includes occasional smokers defined as "smoking now and  
             then".  
             2. Guesstimates for age 15, 1970 only, % smokers Male:20;  
             Female:15
- 4      Ref:      Effizienkontrolle 1984 report by IMW for BZgA (From  
             Todd (1986) p.104-105)  
         GFT table no: 2.5, 2.6, 3.2  
         Note:      % of smokers includes occasional smokers, consumption  
             is per regular smoker (1+ per day). Estimates per  
             person MAY THEREFORE OVER ESTIMATE
- 6      Ref:      World Health Organization, Regional Office for Europe,  
             (1975)  
         GFT table no: 2.8  
         Note: 1. Presumably quoting two different surveys (tables 6 and  
             7)  
             2. Guesstimates for age 15-19, % smokers, Male:45;  
             Female:27. Age 65+, Male:45; Female:10
- 7      Ref:      As table 6  
         GFT table no: 2.8  
         Note: 1. Cigarette only smokers  
             2. Guesstimates for age 15-19, % smokers, Male:40;  
             Female:26. Age 65+, Male:30; Female:10
- 8      Ref:      Bundesminister für Jugend, Familie und Gesundheit  
             (1983)  
         GFT table no: 5.1  
         Note: 1. Based on a survey of persons aged 12-24 in  
             Bundesrepublik Deutschland (excluding West Berlin,  
             Bremen and Hessen) carried out by Infratest

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- Gesundheitsforschung in 1981. The size of the sample was 11,711 persons
2. % smokers of unspecified product, but consumption is per cigarette smoker
- 10 Ref: Todd (1986)  
GFT table no: 4  
Note: Estimated by Todd
- 11 Ref: Merzdorf (1982) quoting IFD (various years)  
Note: Guesstimates for age 15, 1973 only, % smokers A and UC, Male and Female:15
- 12 Ref: Merzdorf (1982) quoting DIVO (1958), (1966), (1974)  
Note: Guesstimates for age 15, % smokers A, Male 1958:20. % smokers UC, Male 1958:20, 1965,74:15; Female 1965,74:10. For age 80+, % smokers A, Male 1958:50. % smokers UC, Male 1958:40, 1965,74:30; Female 1965,74:5
- 13 Ref: Merzdorf (1982) quoting Tobacco Industry  
Notes: Cigarette smokers defined as people who smoke at least one manufactured cigarette per day
- 14 Ref: Merzdorf (1982) quoting Readers Digest (1963)  
Note: Guesstimates for age 15-20, % smokers A, Male:50; Female:16. % smokers UC, Male:45; Female:16
- 15 Ref: Merzdorf (1982) quoting Burda (1967), (1975)  
Note: Guesstimates for age 70+, % smokers, Male:40; Female:10
- 16 Ref: Merzdorf (1982) quoting Spiegel (1971), (1978)  
Note: Guesstimates for age 15-19, % smokers A, Male 1971:45, 1978:40; Female 1978:28. % smokers UC, Male 1971,78:40; Female 1978:27. For age 65+, % smokers A, Male 1971:45, 1978:40; Female 1978:8. % smokers UC Male 1971:35, 1978:30; Female 1978:8
- 17 Ref: Merzdorf (1982) quoting Stern (1977)  
Note: Guesstimates for age 65+, % smokers A, Male:40; Female:8. % smokers UC, Male:30; Female:8
- 18 Ref: Merzdorf (1982) quoting BZgA (?)
- 19 Ref: IMW (1981) tables 3, 4, 7, 11 and 12  
Note: 1. Confidential ?  
2. Representative sample of BRD including West Berlin  
3. The high consumption per smoker by older women is surprising. It arises from odd-looking distributions.
- 20 Ref: Harreis et al (1980)  
Note: 1. Sample size 9080 from 35 schools of different types.  
2. Age 10-19.

2501185913

- 21 Ref: Letzel and Johnson (1984)  
Note: 1. Representative sample, N=1670  
2. Guesstimates for age 66+, % smokers, Male:35; Female:8
- 22 Ref: ITL Market Research Department  
Note: 1. Confidential  
2. Nationally representative consumer survey, sample size 2000.
- 23 Ref: Aarø et al (1981) quoting Tølle (1974)  
Note: Age 10-18, in a larger town. Year unknown.
- 24-27 Ref: WHO (1989)  
Note: 1. 4 regional surveys forming part of WHO MONICA Project

Region	Population size	Sample size	Participation rate%	Sample used		Date
				M	F	
24 Bremenin	73300	1826	71	809	849	05.84-12.84
25 Rhein-Neckar	235900	2865	86	1492	1600	09.83-08.87
Region						
26 Ausburg (urban)	95300	1866	75	924	881	10.84-05.85
27 Ausburg (rural)	109500	2118	80	1098	1118	10.84-05.85

(whole country 23.6mn)

Sample used includes age 25-34, all other figures are for age 35-64 only.

2. Overall % relates only to age 35-64.

3. Regular cigarette smokers defined as those who smoked cigarettes every day. All smokers additionally includes those who smoked cigarettes occasionally, or lg. pipe tobacco per week, or 1 cigar per week.

#### General note

Data on manufactured cigarettes and fine cut tobacco for 1906-1913, Ref: Bevölkerung und Wirtschaft 1872-1972, Federal Statistical Office, Fed. Rep. Germany.

Data on consumption of fine cut tobacco 1925-71 have to be taken from Bevölkerung und Wirtschaft, rather than from RP6, to avoid inaccuracies from metric to Imperial and back again.

Data on consumption (all products) for 1974 onwards and of cigarette papers, 1961 onwards, Ref: Statistisches Bundesamt. These figures do not make allowance for sales to tourists or for personal imports.

Although fine-cut tobacco, listed separately from pipe tobacco, would be expected to be used predominantly in HR cigarettes, the data on sales of cigarette papers suggest that consumption of HR was in fact lower, particularly until the mid-70s.

We have estimated HR consumption up to 1960 as 70% of fine cut tobacco sales and from 1961, as 90% of cigarette paper sales.

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Figures for consumption of fine cut tobacco differ from those given by Merzdorf (1982) p231 for the period 1974-79. Merzdorf estimated HR consumptions as 80% of fine cut tobacco at 1g per cigarette.

Merzdorf et al. (1982) p.199 estimated that during 1976-79 consumption of HR cigarettes amounted to 86% of sales of cigarette papers. However, assuming 1g of tobacco per cigarette, the estimates of HR based on sales of fine cut tobacco always exceeds sales of cigarette papers.

Figures up to 1939 relate to Germany, from 1949 onwards to Western Germany.

1951 age-specific population data used for 1950.

Notes to Table B

1. Up to 1979, cigars and cigarillos are combined.
2. Cigarette consumption in tonnes was estimated from the number of cigarettes consumed by using a conversion factor of 0.98g per cigarette. The conversion factor for cigars/cigarillos combined was 6.2g. These are based on the values used in RP6.

Adult population for 1906-1913 have been estimated to be the same as in 1926 (figures from Bevölkerung und Wirtschaft suggest that the overall population rose slightly from 1906 to 1913 but had returned to the 1906 level by 1926).

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Germany (Federal Republic)

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2501185917



Table A GERMANY

Consumption of Cigarettes and of All Tobacco  
Sales based data, including estimates of consumption of handrolled cigarettes

Year	Manufactured Cigarettes		Hand-rolled Cigarettes		Total Cigarettes		Total Tobacco	
	total millions annual	n per adult daily	total millions annual	n per adult daily	total millions annual	n per adult daily	total tonnes annual	grams per adult daily
19 6	2729	0.2	105	0.0	2834	0.2		
19 7	5805	0.3	195	0.0	6000	0.3		
19 8	6471	0.4	176	0.0	6647	0.4		
19 9	7271	0.4	219	0.0	7490	0.4		
1910	8353	0.5	209	0.0	8562	0.5		
1911	9852	0.6	212	0.0	10064	0.6		
1912	11518	0.7	233	0.0	11751	0.7		
1913	12990	0.8	263	0.0	13253	0.8		
1926	30529	1.8					93600	5.4
1927	29156	1.7					99500	5.8
1928	32768	1.9					106500	6.1
1929	31601	1.8					104200	5.9
1930	32877	1.9					107300	6.1
1931	29367	1.6					106400	6.0
1932	28064	1.6					93100	5.2
1933	31759	1.8	10746	0.6	42505	2.4	95800	5.3
1934	33701	1.9	9699	0.5	43400	2.4	101600	5.6
1935	36162	2.0	9363	0.5	45525	2.5	109700	6.0
1936	37471	2.0	9930	0.5	47401	2.6	110900	6.0
1937	38455	2.1	10606	0.6	49061	2.6	114900	6.2
1938	42420	2.2	11446	0.6	53866	2.9	121400	6.4
1939	47306	2.5	12722	0.7	60028	3.1	127800	6.6
1948	9852	0.7	4830	0.4	14682	1.1	27000	2.0
1949	22090	1.6	4830	0.4	26920	2.0	27000	2.0
1950	24089	1.8	12118	0.9	36207	2.7	71400	5.4
1951	28967	2.2	12157	0.9	41124	3.1	79400	5.9
1952	30840	2.3	11188	0.8	42028	3.1	82200	6.0
1953	35868	2.6	10101	0.7	45969	3.3	85200	6.2
1954	39663	2.8	9321	0.7	48984	3.5	87800	6.2
1955	45411	3.2	8597	0.6	54008	3.8	93300	6.5
1956	50663	3.5	7494	0.5	58157	4.1	97400	6.8
1957	55875	3.9	6843	0.5	62718	4.3	101100	7.0
1958	60482	4.0	6158	0.4	66640	4.4	92400	6.2
1959	65245	4.3	6250	0.4	71495	4.7	106800	7.1
1960	70956	4.7	5844	0.4	76800	5.0	111000	7.3
1961	78039	5.1	4064	0.3	82103	5.4	118100	7.7
1962	83286	5.1	3642	0.2	86928	5.4	120500	7.4
1963	85276	5.2	3911	0.2	89187	5.5	119100	7.3
1964	90156	5.5	3842	0.2	93998	5.7	124500	7.5
1965	96055	5.8	3733	0.2	99788	6.0	128300	7.7
1966	101488	6.0	3590	0.2	105078	6.2	134100	8.0
1967	99139	5.9	4066	0.2	103205	6.1	129500	7.7
1968	105444	6.3	3758	0.2	109202	6.5	135800	8.1
1969	112431	6.6	3709	0.2	116140	6.8	139600	8.2
1970	118051	6.9	3650	0.2	121701	7.2	143700	8.4
1971	125493	7.3	3322	0.2	128815	7.5	149300	8.7
1972	126469	7.3	3566	0.2	130035	7.5	150600	8.7
1973	125461	7.1	4381	0.2	129842	7.4	148500	8.5
1974	127769	7.2	4780	0.3	132549	7.5	149193	8.4
1975	124561	7.0	4606	0.3	129167	7.3	144595	8.2
1976	129401	7.3	5550	0.3	134951	7.6	150003	8.4
1977	115680	6.5	9040	0.5	124720	7.0	141546	7.9
1978	122798	6.8	8221	0.5	131019	7.3	147163	8.2
1979	124521	6.9	8740	0.5	133261	7.3	148187	8.2
1980	128426	7.0	9384	0.5	137810	7.5	151230	8.2
1981	129117	7.0	11147	0.6	140264	7.6	152748	8.2
1982	111962	6.0	17177	0.9	129139	6.9	143564	7.7
1983	118530	6.3	17223	0.9	135753	7.2	146656	7.8
1984	119371	6.3	15404	0.8	134775	7.2	145168	7.7
1985	120409	6.4	15089	0.8	135498	7.2	145128	7.7

2501185918

Table B

## Total sales of tobacco products, 1974-85

Year	Cigarettes millions	Cigarettes tons (assuming 0.98g per cig)	Cigars millions	Cigarillos millions	Cigars & Cigarillos tons (assuming 6.2g per ci)	Fine Cut tobacco tons	Pipe tobacco tons	Total Weight
1974	127,769	125,214	2,652		16,442	5,674	1,863	149,193
1975	124,561	122,070	2,475		15,345	5,475	1,705	144,595
1976	129,401	126,813	2,464		15,277	6,191	1,722	150,003
1977	115,680	113,366	2,503		15,519	10,776	1,885	141,546
1978	122,798	120,342	2,368		14,682	10,307	1,832	147,163
1979	124,521	122,031	2,192		13,590	10,904	1,662	148,187
1980	128,426	125,857	974	1,120	12,983	10,658	1,732	151,230
1981	129,117	126,535	865	1,139	12,425	11,963	1,825	152,748
1982	111,962	109,723	870	937	11,203	20,719	1,919	143,564
1983	118,543	116,172	852	926	11,024	17,698	1,762	146,656
1984	119,371	116,984	795	942	10,769	15,701	1,714	145,168
1985	120,409	118,001	709	923	10,118	15,398	1,611	145,128

Table C

## % of tobacco consumed in different forms, by weight, 1974-85

Year	%cigarettes	%cigars & cigarillos	%fine cut tobacco	%pipe tobacco
1974	83.93	11.02	3.80	1.25
1975	84.42	10.61	3.79	1.18
1976	84.54	10.18	4.13	1.15
1977	80.09	10.96	7.61	1.33
1978	81.77	9.98	7.00	1.24
1979	82.35	9.17	7.36	1.12
1980	83.22	8.58	7.05	1.15
1981	82.84	8.13	7.83	1.19
1982	76.43	7.80	14.43	1.34
1983	79.21	7.52	12.07	1.20
1984	80.59	7.42	10.82	1.18
1985	81.31	6.97	10.61	1.11

2501185919

frequency, product source year	age group																					all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +	
50 11 UC U												60										
50 11 A U												88										
55 11 UC U												64										
55 11 A U												83										
58 12 UC U												63										
58 12 A U												77										
60 11 UC U												61										
60 11 A U												78										
60 13 MC R												49										
60 13 A U												77										
63 14 UC U															56							
63 14 A U															70							
65 11 UC U												61										
65 11 A U												74										
65 12 UC U												57										
67 15 UC U											61											
70 3 A A														59								
70 11 UC U												55										
70 11 A U												67										
71 13 MC R												49										
71 16 UC U												53										
71 16 A U												63										
72 18 U R						49																
72 18 U A						71																
73 6 U U									65		64				67							60
73 7 * U											54											
73 11 UC U											52											
73 11 A U											65											
73 22 UC U						57					51		61		48		36					51
74 11 UC U											47											
74 11 A U											55											
74 12 UC U											46											
74 23 U A				41																		
75 1 TC A											41											
75 1 A A											48											
75 11 UC U											50											
75 11 A U											60											
75 13 MC R											39											
75 15 UC U										45												
75 15 A U											53											
76 3 A A											51											
76 11 UC U											47											
76 11 A U											55											
76 13 MC R											39											
76 18 U R						41																

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

2501185920

frequency product source year	age group																				all ages		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +	
76 18 U A			66																				
77 1 TC A														43									
77 1 A A														48									
77 11 UC U														45									
77 11 A U														53									
77 13 MC R														36									
77 17 UC U														45									
77 17 A U														50									
78 11 UC U														47									
78 11 A U														55									
78 13 MC R														37									
78 16 UC U									48														
78 16 A U									55														
78 20 U U			25																				
79 1 TC A														41									
79 1 A A														48									
79 2 TC A			39						56		43		40		42		28				41		
79 2 A A			39						63		49		43		52		42				48		
79 11 UC U														44									
79 11 A U														52									
79 13 MC R							38																
80 3 A A														47									
80 11 UC U														49									
80 11 A U														53									
81 3 A A														46									
81 8 U A			41																				
81 19 TC R			18						51		37		33		30		18				31		
81 19 TC A			21						57		42		38		35		23				36		
81 19 A A			25						68		55		46		45		40				47		
82 3 A A														51									
82 21 U A			35						51		41		44		45								
83 3 A A														48									
84 4 MC A			22						56		59		47		29		33				43		
84 4 TC A			24						59		60		47		29		34				44		
84 4 A A			24						62		66		49		31		40				47		
84 3 UC A														38									
84 3 A A														49									
84 24 UC R											65		48		43		42						45
84 24 A A											67		53		50		47						50
85 25 UC R											46		34		34		23						31
85 25 A A											52		41		41		31						37
85 26 UC R											46		41		36		30						36
85 26 A A											53		45		40		34						40
85 27 UC R											42		33		28		28						30
85 27 A A											50		40		36		38						38

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 Frequency: A all smokers (including occasional), R regular or daily smokers  
 All ages: relevant to ages used and as given in original source

2501185921

frequency product source year	age group																				all ages				
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +			
50 11 UC U													21												
50 11 A U													21												
55 11 UC U													21												
55 11 A U													21												
58 12 UC U																									
58 12 A U																									
60 11 UC U													22												
60 11 A U													22												
60 13 MC R															13										
60 13 A U															23										
63 14 UC U																				16					
63 14 A U																				16					
65 11 UC U													24												
65 11 A U													24												
65 12 UC U																18									
67 15 UC U													28												
70 3 A A																24									
70 11 UC U													27												
70 11 A U													27												
71 13 MC R															21										
71 16 UC U																									
71 16 A U																									
72 18 U R								33																	
72 18 U A								64																	
73 6 U U																				27					
73 7 * U																				26					
73 11 UC U																30									
73 11 A U																30									
73 22 UC U										54					33		32		31		16				34
74 11 UC U													29												
74 11 A U													28												
74 12 UC U																27									
74 23 U A						33																			
75 1 TC A													23												
75 1 A A													23												
75 11 UC U													29												
75 11 A U													29												
75 13 MC R															20										
75 15 UC U													23												
75 15 A U													23												
76 3 A A													22												
76 11 UC U													28												
76 11 A U													28												
76 13 MC R													21												
76 18 U R								36																	

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

2501185922

frequency product source year	age group																				all ages		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +	
76 18 U A			61																				
77 1 TC A													25										
77 1 A A													25										
77 11 UC U													28										
77 11 A U													29										
77 13 MC R													28										
77 17 UC U													26										
77 17 A U													26										
78 11 UC U													31										
78 11 A U													31										
78 13 MC R													19										
78 16 UC U									27														
78 16 A U									28														
78 20 U U	21																						
79 1 TC A													28										
79 1 A A													28										
79 2 TC A			42						47		41		19		21		18		6		28		
79 2 A A			42						47		41		19		21		18		6		28		
79 11 UC U													28										
79 11 A U													28										
79 13 MC R				22																			
80 3 A A													24										
80 11 UC U													29										
80 11 A U													29										
81 3 A A													25										
81 8 U A	36																						
81 19 TC R			14						36		31		18		12		10		5		18		
81 19 TC A			22						45		36		20		13		11		6		22		
81 19 A A			23						47		37		21		13		11		6		23		
82 3 A A													26										
82 21 U A			36								50		32		22		20						
83 3 A A													28										
84 4 MC A			31						46		42		28		21		17		9		28		
84 4 TC A			31						49		43		28		23		17		9		29		
84 4 A A			31						49		43		28		23		17		9		29		
84 3 UC A													26										
84 3 A A													27										
84 24 UC R									50		37		27		21						29		
84 24 A A									50		37		27		21						29		
85 25 UC R									39		30		17		15						21		
85 25 A A									43		35		19		17						25		
85 26 UC R									35		24		18		11						18		
85 26 A A									42		28		20		14						22		
85 27 UC R									25		17		11		7						12		
85 27 A A									30		22		13		9						15		

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 Frequency: A all smokers (including occasional), R regular or daily smokers  
 All ages: relevant to ages used and as given in original source

2501185923

## E Germany Male Cigarettes per smoker per day

product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
81 19 TC					16				19		27		21		17				17			20
84 4 TCI											21											

## E Germany Female Cigarettes per smoker per day

product source year	age group																				all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +
81 19 TC					14				15		17		21		19		14		12		17
84 4 TCI											11										

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

I indicates mean calculated from %s in intervals

All ages: relevant to ages used and as given in original source

2501185924

## F Germany Male Cigarettes per person per day

product source year	age group																				all ages	% total sales	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +
80 10 MC					9.3																	--- M	
81 19 TC				3.4						11		11		8.0		6.0		3.9				7.2	75%T
82 10 MC					7.7																	--- M	
84 4 TC *				9.2																	90%T		

## F Germany Female Cigarettes per person per day

product source year	age group																				all ages	% total sales	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +
80 10 MC					5.0																	--- M	
81 19 TC				3.1						6.8		6.1		4.2		3.5		1.5		0.7		3.7	75%T
82 10 MC					4.5																	--- M	
84 4 TC *				3.8																	90%T		

2501185925

U unspecified \* refer to notes  
 Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 All ages: relevant to ages used and as given in original source  
 % total sales: % of national sales of M manufactured or T total cigarettes implied by survey  
 m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown  
 \*\*\* cannot be calculated --- adjusted by original author



## G Germany Male Cigarettes per person per day adjusted

product source year	age group																					all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +		
80 10 MC				9.3																			--- M
81 19 TC				4.6					14		15		11		8.0		5.2					9.6	75%T
82 10 MC				7.7																			--- M
84 4 TC *				10																			90%T

## G Germany Female Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		
80 10 MC				5.0																		--- M
81 19 TC				4.2					9.1		8.2		5.6		4.7		2.0		0.9		5.0	75%T
82 10 MC				4.5																		--- M
84 4 TC *				4.2																		90%T

U unspecified \* refer to notes  
 Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 All ages: relevant to ages used and as given in original source  
 % total sales: % of national sales of M manufactured or T total cigarettes implied by survey  
 m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown  
 \*\*\* cannot be calculated --- adjusted by original author

2501185926

Table H GERMANY

year	source	% SMOKERS				CIGARETTES PER MAN & PER WOMAN				ADJUSTED			
		product /freq code	man cigs m w	tot cigs m w	all prods m w	product code	ORIGINAL per man	per woman	product adjust factor	ADJUSTED to MAN CIGS per man	per woman	ADJUSTED to TOT CIGS per man	per woman
48													
49													
50	11	UC/U		60 21					t			( 4.5	1.3)
	11	A/U			88 21								
51													
52													
53													
54													
55	11	UC/U		64 21					t			( 6.3	1.6)
	11	A/U			83 21								
56													
57													
58	12	UC/U		62									
	12	A/U			75								
59													
60	11	UC/U		61 22					t			( 8.2	2.4)
	11	A/U			78 22								
	13	MC/R	49 13						M	( 8.1	1.7)		
	13	A/U			77 23								
61													
62													
63	14	UC/U		55 16					t			( 9.3	2.2)
	14	A/U			68 16								
64													
65	11	UC/U		61 24					t			( 9.5	3.0)
	11	A/U			74 24								
	12	UC/U		56 18					t			( 10.0	2.5)
66													
67	15	UC/U		60 26					t			( 9.4	3.3)
68													
69													
70	3	A/A			58 24								
	11	UC/U		55 27					t			( 10.6	4.2)
	11	A/U			67 27								
71	13	MC/R	49 21						M	( 11.2	3.8)		
	16	UC/U		49									
	16	A/U			59								
72													
73	6	U/U			60 24				t			( 11.6	3.7)
	7	*U			49 23								
	11	UC/U		51 30					t			( 10.3	4.8)
	11	A/U			64 30								
	22	UC/U		51 33					t			( 10.0	5.1)
74	11	UC/U		47 29					t			( 10.3	5.1)
	11	A/U			55 28								
	12	UC/U		45 26					t			( 10.5	4.8)
75	1	TC/A		41 23					t			( 10.3	4.6)
	1	A/A			48 23								
	11	UC/U		50 29					t			( 10.2	4.7)
	11	A/U			60 29								
	13	MC/R	39 20						M	( 10.2	4.2)		
	15	UC/U		45 21					t			( 10.9	4.2)
	15	A/U			53 23								
76	3	A/A			51 22								
	11	UC/U		47 28					t			( 10.5	5.0)
	11	A/U			55 28								
	13	MC/R	39 21						M	( 10.5	4.5)		
77	1	TC/A		43 25					t			( 9.8	4.5)
	1	A/A			48 25								
	11	UC/U		45 28					t			( 9.5	4.7)
	11	A/U			53 29								
	13	MC/R	36 28						M	( 8.1	5.0)		
	17	UC/U		43 22					t			( 10.2	4.2)
	17	A/U			49 22								
78	11	UC/U		47 31					t			( 9.7	5.1)
	11	A/U			55 31								
	13	MC/R	37 19						M	( 9.9	4.1)		
	16	UC/U		45 23					t			( 10.6	4.4)
	16	A/U			51 24								
79	1	TC/A		41 28					t			( 9.7	5.3)
	1	A/A			48 28								
	2	TC/A		42 28					t			( 9.8	5.2)
	2	A/A			48 28								
	11	UC/U		44 28					t			( 9.9	5.1)
	11	A/U			52 28								

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Greece

Source  
number

- 1 Ref: Kalapothaki et al (1977) p.931  
GFT table no: 2  
Note: This is apparently based on data compiled from 7 studies covering various segments of Greek population, where the % smokers was:  

	Urban	Semiurban	Rural
M	54	48	41
F	13	8	2
- 2 Ref: Todd (1986) quoting Mr. B. Thassitis (private communication)  
GFT table no: 2
- 3 Ref: Rebelakos et al (1985)  
Note: 1. Patients at major accident hospital in Athens (controls)  
2. Sample size 250M, 50F  
3. Includes those who had given up smoking within previous 5 years, excludes smokers for less than 1 year. Includes a "few individuals" smoking products other than manufactured cigarettes  
4. Interval estimation based on 1-10,11-20,21-30,≥31
- 4 Ref: Tsakraklides et al (1983)  
Note: 1. Study of male soldiers from all over Greece. Over representative of rural areas and high school education  
2. Sample size 6650  
3. 1% of smokers smoked pipe or cigars  
4. Interval estimation based on 1-5,6-10,11-20,21-30, 31-40,41+
- 5 Ref: Keenan (1985)  
Note: 1. 2 urban and 2 rural high schools, year unknown  
2. Ever tried smoking  
3. Ages uncertain (9th and 12th grades)
- 6 Ref: Kanellakis et al (1976)  
Note: 1. Study conducted from 1950-62. Patients with cancer other than lung (controls)  
2. Sample size 613  
3. Interval estimation based on 1-10,11-20,21-35,36+
- 7 Ref: Voridis et al (1974)  
Note: 1. Study conducted from 1966-69. Non-coronary hospital patients (controls)  
2. Heavy smokers - at least 20 cigarettes per day for 10 years. (Figures for age 20-29 are omitted due to this

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definition)

3. Sample size 223M, 61F

4. Guesstimates for age 15-19, % smokers, Male:30. Cigs per person:5.0

8 Ref: Dontas (1980)

Note: 1. Combined results from 3 surveys in Athens, Larissa (industrial town, Central Greece) and Chania (town in agricultural/tourist area, Crete). Sample sizes respectively 6000 (8% of all schoolchildren), 800 (80%) and 700 (85%).

2. The paper states that 31.8% of children were regular smokers. Hence, I have interpreted "Of the boys 45.9% smoked compared to 54.1% of the girls" as meaning "of the smokers, 45.9% were boys and 54.1% girls." This implies (assuming equal populations) 29.2% of boys smoked and 34.4% of girls, but the original figures have been quoted elsewhere (eg. Masironi and Roy (1981).

3. Year unknown.

#### General note

Data for consumption of man. cigs. from 1974, Ref: Public Finance Statistics, Statistical Service of Greece. (private communication).

Consumption of other forms of tobacco is negligible.

Data for manufactured cigarettes by weight are only available up to 1980. From 1981 onwards, weight were obtained from numbers by using a conversion factor of 1.14g per cigarette, based on weights in the preceeding years.

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Greece

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Table A GREECE

## Consumption of Cigarettes and of All Tobacco

Sales based data, including estimates of consumption of handrolled cigarettes

Year	Manufactured Cigarettes		Hand-rolled Cigarettes		Total Cigarettes		Total Tobacco	
	total millions annual	n per adult daily	total millions annual	n per adult daily	total millions annual	n per adult daily	total tonnes annual	grams per adult daily
1920	3937	3.3					4500	3.7
1921	5203	4.3					5900	4.9
1922	5439	4.4					6200	5.0
1923	4725	3.5					5400	4.0
1924	4663	3.3					5300	3.7
1925	5323	3.6					6000	4.1
1926	4310	3.0					4900	3.4
1927	4221	2.8					4800	3.2
1928	4115	2.7					4700	3.1
1929	4234	2.7					4800	3.1
1930	4123	2.6					4700	3.0
1931	4048	2.6					4600	2.9
1932	3796	2.4					4300	2.7
1933	4049	2.5					4600	2.8
1934	4256	2.6					4900	3.0
1935	4434	2.6					5000	3.0
1936	4625	2.8					5300	3.2
1937	4655	2.7					5300	3.1
1938	5076	3.0					5800	3.4
1939	5179	3.0					5900	3.4
1940	5490	3.1					6300	3.5
1941	4734	2.6					5400	3.0
1942	4964	2.7					5600	3.1
1943	4197	2.3					4800	2.6
1944	2345	1.3					2700	1.5
1945	4248	2.3					4800	2.6
1946	6136	3.3					7000	3.8
1947	7447	3.9					8500	4.5
1948	7841	4.0					8900	4.5
1949	8447	4.4					9600	5.0
1950	8656	4.4					9800	5.0
1951	8607	4.3					9800	4.9
1952	8595	4.2					9800	4.8
1953	8871	4.3					10100	4.8
1954	8964	4.2					10200	4.8
1955	9187	4.3					10400	4.8
1956	9206	4.3					10500	4.8
1957	9578	4.4					10900	5.0
1958	10074	4.6					11600	5.3
1959	10335	4.7					11700	5.3
1960	10563	4.7					12000	5.3
1961	10820	4.8					12300	5.4
1962	11135	4.9					12700	5.6
1963	11719	5.1					13300	5.8
1964	11894	5.1					13500	5.8
1965	12328	5.3					14100	6.1
1966	13073	5.6					14800	6.3
1967	13644	5.7					15500	6.5
1968	14066	5.9					16000	6.7
1969	14432	6.0					16400	6.8
1970	15144	6.3					17200	7.1
1971	15300	6.4					17300	7.2
1972	16250	6.6					18300	7.5
1973	17360	7.0					19500	7.9
1974	18198	7.3					20679	8.3
1975	18889	7.5					21465	8.5
1976	20052	7.9					22786	8.9
1977	20935	8.1					23790	9.2
1978	21949	8.4					24942	9.5
1979	21923	8.3					24912	9.4
1980	21903	8.1					24889	9.2
1981	22356	8.2					25396	9.4
1982	24095	8.6					27372	9.8
1983	25336	9.0					28781	10.2
1984	27019	9.5					30694	10.8
1985	27757	9.7					31531	11.0

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## D Greece Male Percentage of smokers

frequency product source year	age group																				all ages		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +	
56 6 UC R									61		71		73		75		78		68		40		
68 7 UC *											70		69		68		58		81		70		
75 1 MC U					50																		
78 8 U R					29																		
80 4 A R									73	65													71
81 3 A R															74		61		40				
83 2 MC U					67																		
84 5 MC *		65		79																			

## D Greece Female Percentage of smokers

frequency product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
56 6 UC R																						
68 7 UC *										20		10		6		0		0		0		
75 1 MC U				10																		
78 8 U R				34																		
80 4 A R																						
81 3 A R														0		5		4				
83 2 MC U				28																		
84 5 MC *		50		82																		

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

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## E Greece Male Cigarettes per smoker per day

product source year	age group																					all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +	
56 6 UCI									12		11		13		14		13		13		9.7	
80 4 UCI									21													
81 3 UCI															20		22		17			

## E Greece Female Cigarettes per smoker per day

product source year	age group																					all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +	
56 6 UCI																						
80 4 UCI																						
81 3 UCI																						

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U unspecified \* refer to notes  
 Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 I indicates mean calculated from %s in intervals  
 All ages: relevant to ages used and as given in original source

## F Greece Male Cigarettes per person per day

product source year	age group																				all ages	% total sales		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +	
56 6 UC									7.4		8.0		9.3		10		9.8		8.5		3.9		***	
80 4 UC									15															***
81 3 UC													15				13		6.6			***		

## F Greece Female Cigarettes per person per day

product source year	age group																				all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +	
56 6 UC																						***
80 4 UC																						***
81 3 UC																						***

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

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## G Greece Male Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +
56 6 UC									7.4		8.0		9.3		10		9.8		8.5		3.9		***
80 4 UC									15														***
81 3 UC													15		13		6.6				***		

## G Greece Female Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +	
56 6 UC																						***
80 4 UC																						***
81 3 UC																						***

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U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

Table H GREECE

year	source	% SMOKERS				CIGARETTES PER MAN & PER WOMAN									
		product /freq code	man cigs		tot cigs		all prods		ORIGINAL		product adjust factor	ADJUSTED to MAN CIGS		ADJUSTED to TOT CIGS	
			m	w	m	w	m	w	per man	per woman		per man	per woman	per man	per woman
40															
41															
42															
43															
44															
45															
46															
47															
48															
49															
50															
51															
52															
53															
54															
55															
56	6	UC/R			64			UCI	8.1						
57															
58															
59															
60															
61															
62															
63															
64															
65															
66															
67															
68															
69															
70															
71															
72															
73															
74															
75	1	MC/U	50	10						M	(	13.3	2.1)		
76															
77															
78															
79															
80															
81															
82															
83	2	MC/U	67	28						M	(	13.7	4.6)		
84															
85															

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Republic of Ireland

Source  
number

- 1      Ref:      Health Education Bureau (From Todd (1986) p.161,165)  
         GFT table no: 2.1,3  
         Note: 1. % smokers from national probability sample of  
                 approximately 5,000 persons each year, year commencing  
                 July.  
                 2. Cigarettes per smoker from national stratified random  
                 sample of 3000 persons in summer 1980.
- 2      Ref:      O'Rourke et al (1983a) table 5 (From Todd (1986) p.166)  
         GFT table no: 5.1,5.2  
         Note: 1. County of Dublin  
                 2. A "regular smoker" was defined as a person smoking at  
                 least one cigarette per week every week.  
                 3. The sample sizes were: Dublin, 1967, boys 2,710,  
                 girls 1,792; 1970, boys 3,015, girls 2,468; 1980-81,  
                 boys 3,068, girls 2,085
- 3      Ref:      O'Rourke et al (1983b) table 1, and O'Rourke et al (in  
                 the press) (From Todd (1986) p.166)  
         GFT table no: 5.1,5.2  
         Note: 1. Rural areas  
                 2. As table 2  
                 3. The sample sizes were: 1971, boys 2,897, girls  
                 2,853; 1982, boys 2,092, girls 2,716
- 4      Ref:      J.W. Grube, M. Morgan and S. McGree (private  
                 communication) (From Todd (1986) p.168)  
         GFT table no: 5.3  
         Note: 1. Based on a survey of primary school pupils in Dublin in  
                 Spring 1983 and post-primary pupils in Winter 1984 as  
                 part of a study for the Economic and Social Research  
                 Institute, Dublin  
                 2. Regular smokers were defined as those who reported that  
                 they had smoked at least one cigarette per day during  
                 the month prior to the survey
- 5      Ref:      Corridan (1963) table 2 (From Todd (1986) p.169)  
         GFT table no: 5.4  
         Note: 1. Children in Cork City who smoked one or more cigarettes  
                 a week  
                 2. Based on a sample of 1,588 boys and 1,532 girls  
                 surveyed in April-May 1962  
                 3. Interval estimation adult method, which may not be  
                 appropriate, based on 1-4,5-9,10-19,20-29,30+ per week
- 6      Ref:      Todd (1986)  
         GFT table no: 4  
         Note:      Estimated by Todd

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- 7      Ref:      ITMAC  
Note: 1. Confidential  
2. Tables for HR also available from 1967 onwards, but % of additional smokers always <0.5% overall  
3. Pipe smoking common among older men  
4. Guesstimates for age 15, % smokers A and MC, Male 1961,67,71,75,80:30; Female: 1961:10, 1967,71:15, 1975,80:20. Cigs per person, Male 1961,67,71:3.0, 1975:5.0, 1980:3.0; Female 1961,67:1.0, 1971:2.0, 1975:3.0, 1980:2.0
- 8      Ref:      Merzdorf (1982) quoting Irish Marketing Surveys (Joint National Media Research)  
Note: 1. 1973 represents 1972/73 etc.  
2. At least one cigarette on average per day  
3. Guesstimates for age 15, 1973 only, % smokers, Male:30; Female:15
- 9      Ref:      Merzdorf (1982) quoting Health Education Bureau (1979)
- 10     Ref:      Adriaanse (1986) quoting Cleary et al (1983)  
Note:      Age unknown, national sample.

General note

Data on consumption up to 1974, Ref:      Research Paper 6. 1975-77, from Industry sources. 1978-85 Ref:      Revenue Commissioners Annual Reports.

Estimates of HR consumption are based on 10% of smoking tobacco. According to Merzdorf (1982) "..... between 5-10% of fine cut pipe tobacco sales are smoked in the form of roll-your-own cigarettes".

With the introduction of an end-product duty on finished tobacco products, in 1978, snuff was no longer liable to excise duty, so consumption figures are not available.

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Ireland

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Cleary A, Shelley E et al (eds) (1983) Smoking and health. Irish Medical Journal, 76, suppl. 12

Corridan JP (1963) A smoking survey of Cork city children. Journal of the Irish Medical Association, 53, 147-153

Merzdorf J, Reuter U and Welsch G (1982) Daten und Fakten zur Entwicklung des Rauchens in Mitgliedsländern der Europäischen Gemeinschaften. Commission of the European Communities, 1982.

O'Rourke AH, O'Byrne DJ et al (1983)(a) Smoking - A study of post-primary schools, 1980-81. Irish Medical Journal, 76 (6), 285-289

O'Rourke AH, O'Byrne DJ et al (1983)(b) Smoking among schoolchildren. Journal of the Royal College of General Practitioners, 33, 569-572

Todd G. (1986) Statistics of smoking in the Member States of the European Community. Commission of the European Communities, Luxembourg

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Table A IRELAND

Consumption of Cigarettes and of All Tobacco  
 Sales based data, including estimates of consumption of handrolled cigarettes

Year	Manufactured Cigarettes		Hand-rolled Cigarettes		Total Cigarettes		Total Tobacco	
	total millions annual	n per adult daily	total millions annual	n per adult daily	total millions annual	n per adult daily	total tonnes annual	grams per adult daily
1920	1406	1.8					4000	5.0
1921	1361	1.7					4000	5.0
1922	1315	1.6					3900	4.9
1923	1361	1.8					3700	4.8
1924	1406	1.8					3800	5.0
1925	1497	2.0					3900	5.1
1926	1542	2.0					3800	5.0
1927	1633	2.1					3900	5.1
1928	1723	2.2					3900	5.1
1929	1814	2.4					3900	5.1
1930	1950	2.5					4100	5.3
1931	2132	2.8					4200	5.5
1932	2222	2.9					4100	5.3
1933	2313	3.0					4100	5.3
1934	2494	3.3					4200	5.5
1935	2540	3.3					4300	5.6
1936	2585	3.4					4300	5.6
1937	2721	3.5					4400	5.7
1938	2900	3.8					4600	6.0
1939	3038	4.0					4600	6.0
1940	3175	4.0					4700	5.9
1941	2766	3.4					4100	5.1
1942	2766	3.4					4100	5.1
1943	3175	4.1					4600	6.0
1944	3401	4.4					4900	6.4
1945	3265	4.3					4800	6.3
1946	4127	5.4					5700	7.4
1947	4354	5.7					5800	7.6
1948	4580	6.0					5900	7.7
1949	4989	6.5					6300	8.2
1950	5261	6.8	130	0.2	5391	7.0	6600	8.5
1951	5941	7.7	120	0.2	6061	7.9	7200	9.4
1952	5578	7.3	100	0.1	5678	7.4	6600	8.6
1953	5400	7.1	110	0.1	5510	7.2	6500	8.5
1954	5220	6.9	100	0.1	5320	7.0	6200	8.2
1955	5500	7.3	100	0.1	5600	7.5	6500	8.7
1956	5027	6.8	90	0.1	5117	6.9	5900	8.0
1957	4850	6.6	80	0.1	4930	6.7	5800	7.9
1958	4765	6.6	80	0.1	4845	6.7	5700	7.9
1959	4942	6.9	80	0.1	5022	7.0	5800	8.1
1960	5115	7.2	70	0.1	5185	7.3	5900	8.3
1961	5325	7.5	70	0.1	5395	7.6	6100	8.6
1962	5270	7.4	70	0.1	5340	7.5	6000	8.4
1963	5570	7.8	70	0.1	5640	7.9	6300	8.8
1964	5360	7.5	80	0.1	5440	7.6	6100	8.5
1965	5380	7.4	70	0.1	5450	7.5	6000	8.3
1966	5530	7.6	60	0.1	5590	7.7	6000	8.3
1967	5603	7.7	60	0.1	5663	7.8	5900	8.1
1968	5700	7.8	60	0.1	5760	7.9	5900	8.1
1969	5925	8.1	60	0.1	5985	8.2	5900	8.1
1970	6070	8.2	50	0.1	6120	8.3	5900	8.0
1971	6105	8.2	60	0.1	6165	8.3	5900	7.9
1972	6510	8.6	50	0.1	6560	8.7	6200	8.2
1973	6975	9.1	50	0.1	7025	9.2	6500	8.5
1974	7500	9.7	50	0.1	7550	9.7	6800	8.8
1975	7520	9.6	50	0.1	7570	9.7	6600	8.4
1976	7490	9.2	50	0.1	7540	9.3	6500	8.0
1977	7260	8.8	40	0.0	7300	8.8	6300	7.6
1978	7725	9.2	48	0.1	7773	9.3	6794	8.1
1979	7603	8.9	44	0.1	7647	9.0	6683	7.8
1980	7518	8.7	42	0.0	7560	8.8	6640	7.7
1981	7297	8.3	40	0.0	7337	8.4	6453	7.4
1982	6794	7.7	40	0.0	6834	7.7	6114	6.9
1983	6539	7.3	40	0.0	6579	7.3	5915	6.6
1984	6373	7.0	36	0.0	6409	7.1	5755	6.3
1985	6226	6.8	35	0.0	6261	6.8	5712	6.2

2501185941



## Ireland

Table B

Total sales of tobacco products, 1974-85

Year	Cigarettes millions	Cigarettes kgs	Cigars millions	Cigars kgs	Other tobacco kgs	Total Weight kgs
1975	7,520	5,990,000	59	90,000	500,000	6,580,000
1976	7,490	5,900,000	65	90,000	500,000	6,490,000
1977	7,260	5,710,000	67	140,000	450,000	6,300,000
1978	7,725.4	6,168,019		148,778	477,010	6,793,807
1979	7,602.7	6,083,809		162,912	435,876	6,682,597
1980	7,518.1	6,058,326		160,870	421,276	6,640,472
1981	7,296.9	5,909,652		143,906	399,654	6,453,212
1982	6,794.3	5,560,446		150,446	403,418	6,114,310
1983	6,538.5	5,387,075		132,132	396,199	5,915,406
1984	6,373.3	5,266,856		124,715	363,464	5,755,406
1985	6,225.9	5,248,484		112,222	351,755	5,712,461

Table C

% of tobacco consumed in different forms, by weight, 1974-85

Year	%cigarettes	%cigars & cigarillos	%fine cut tobacco
1975	91.03	1.37	7.60
1976	90.91	1.39	7.70
1977	90.63	2.22	7.14
1978	90.79	2.19	7.02
1979	91.04	2.44	6.52
1980	91.23	2.42	6.34
1981	91.58	2.23	6.19
1982	90.94	2.46	6.60
1983	91.07	2.23	6.70
1984	91.51	2.17	6.32
1985	91.88	1.96	6.16

2501185942

frequency product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
61 7 MC A					49				67				71				43				61	
61 7 A A					45				55	65	74	75				78		74				69
62 5 UC R	23	40	48																			
67 2 U R	13	19	31	36	42	43	55															
67 7 MC A					50				56				60				48				55	
67 7 A A					46				58	63	60	65				70		74				65
67 10 U U				68																		
70 2 U R	25	24	33	38	45	44	47															
71 3 U R	14	15	21	30	36	41	39															
71 7 MC A					54				50				61				52				56	
71 7 A A					54				60	54	56	68				72		75				66
73 8 UC R					49																	
74 8 UC R				47																		
75 7 MC A					50				53				50				51				51	
75 7 A A					61				54	52	60	59				61		71				61
75 8 UC R				44																		
76 8 UC R				44																		
77 1 UC U				35				47	47	40				47	47	39				43		
77 8 UC R				42																		
78 8 UC R				43																		
79 8 UC R				40																		
79 9 UC U				37																		
80 1 UC U				26				42	46	37				45	38	30				38		
80 2 U R	21	31	39	37	32	31	46															
80 7 MC A					48				47				42				45				45	
80 7 A A					42				55	58	52	53				53		60				54
80 8 UC R				41																		
82 3 U R	23	23	34	38	36	44	46															
83 4 U R	11	12	22	26	31	29																

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

2501185943

frequency product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
61 7 MC A					26				43				46				25				38	
61 7 A A					20				32	43	43	47				42		25				37
62 5 UC R	4	10	11																			
67 2 U R	1	6	11	13	15	22	20															
67 7 MC A					34				45				46				23				38	
67 7 A A					30				38	45	55	48				45		23				38
67 10 U U				39																		
70 2 U R	3	9	18	25	28	29	28															
71 3 U R	2	7	11	13	21	19	19															
71 7 MC A					43				48				48				30				42	
71 7 A A					38				49	51	45	50				46		30				42
73 8 UC R					37																	
74 8 UC R				36																		
75 7 MC A					45				51				47				34				44	
75 7 A A					44				47	55	48	48				47		34				44
75 8 UC R				36																		
76 8 UC R				34																		
77 1 UC U				30				40	40				34	37	33	20				33		
77 8 UC R				33																		
78 8 UC R				33																		
79 8 UC R				30																		
79 9 UC U				33																		
80 1 UC U				23				40	39				32	35	33	22				32		
80 2 U R	10	18	29	27	32	34	29															
80 7 MC A					37				42				37				26				35	
80 7 A A					26				49	45	40	35				38		26				35
80 8 UC R				31																		
82 3 U R	11	16	26	26	26	34	32															
83 4 U R	4	6	14	17	24	30																

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

2501185944

E Ireland Male Cigarettes per smoker per day

product source year	age group																					all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +		
61 7 MC					13				16	20		20		18		16				18			
62 5 UCI*	0.9	1.3	1.1																				
67 7 MC					13				19	20		19		19		16				18			
71 7 MC					15				19	21		22		22		16				20			
75 7 MC					18				22	24		25		21		18				21			
80 1 UC				20																			
80 2 UC	5.6				7.7	8.7	10																
80 7 MC					16				21	22		27		23		18				22			
82 3 UC				6.0	7.3	8.7	11																

E Ireland Female Cigarettes per smoker per day

product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
61 7 MC					2.1				8.3	9.6		11			12		8.7				10	
62 5 UCI*	0.6	0.7	1.2																			
67 7 MC					9.9				14	12		13		14		12				12		
71 7 MC					12				14	14		15		15		12				14		
75 7 MC					14				17	18		18		16		13				16		
80 1 UC				17																		
80 2 UC	4.1				5.9	6.0	9.6															
80 7 MC					16				20	17		19		16		16				17		
82 3 UC				3.4	5.0	5.9	5.1															

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

All ages: I indicates mean calculated from %s in intervals relevant to ages used and as given in original source

2501185945

F Ireland Male Cigarettes per person per day

product source year	age group																					all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +		
61 7 MC						5.7			8.7	13		14		12		6.9						11	93%M
62 5 UC *	0.2	0.5	0.6																				***
67 7 MC						5.9			10	11		11		12		7.4						10	93%M
71 7 MC						7.6			11	10		13		14		8.3						10	101%M
75 6 MC												12											--- M
75 7 MC						9.4			11	13		12		11		9.2						10	92%M
80 1 UC												7.6											75%M
80 6 MC												11											--- M
80 2 UC		1.8			2.5	2.7	4.6																***
80 7 MC						6.5			11	11		11		9.4		8.0						9.6	88%M
82 3 UC				2.3	2.6	3.8	5.1																***

F Ireland Female Cigarettes per person per day

product source year	age group																				all ages	% total sales		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +	
61 7 MC					1.6				2.7	4.0		5.0		5.1		2.1				3.7	93%M			
62 5 UC *	0.0	0.1	0.1																			***		
67 7 MC					3.0				5.4	5.6		6.1		6.1		2.7				4.9	93%M			
71 7 MC					4.6				6.6	6.8		7.5		7.1		3.6				5.8	101%M			
75 6 MC					7.7																	--- M		
75 7 MC					6.2				8.0	8.9		8.8		7.3		4.4				7.0	92%M			
80 1 UC					5.4																	75%M		
80 6 MC					6.9																	--- M		
80 2 UC	0.9				1.9	2.0	2.8																***	
80 7 MC					4.1				9.6	7.2		6.7		6.0		4.2				6.1	88%M			
82 3 UC					0.9	1.3	2.0	1.6																***

U unspecified \* refer to notes  
 Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 All ages: relevant to ages used and as given in original source  
 % total sales: % of national sales of M manufactured or T total cigarettes implied by survey  
 m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown  
 \*\*\* cannot be calculated --- adjusted by original author

2501185946

## G Ireland Male Cigarettes per person per day adjusted

product source year	age group																					all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +		
61 7 MC						6.1			9.3	14		15			13			7.4				12	93%M
62 5 UC *	0.2	0.5	0.6																				***
67 7 MC						6.3			11	12		12		12				7.9				11	93%M
71 7 MC						7.6			11	10		13		14				8.3				9.9	101%M
75 6 MC												12											--- M
75 7 MC						10			12	14		13		12				10				11	92%M
80 1 UC												10											75%M
80 6 MC												11											--- M
80 2 UC		1.8			2.5	2.7	4.6																***
80 7 MC						7.4			13	12		13		11				9.1				11	88%M
82 3 UC				2.3	2.6	3.8	5.1																***

## G Ireland Female Cigarettes per person per day adjusted

product source year	age group																					all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +		
61 7 MC						1.7			2.9	4.3		5.4			5.5			2.3				4.0	93%M
62 5 UC *	0.0	0.1	0.1																				***
67 7 MC						3.2			5.8	6.0		6.5		6.5				2.9				5.3	93%M
71 7 MC						4.6			6.6	6.8		7.5		7.1				3.6				5.8	101%M
75 6 MC												7.7											--- M
75 7 MC						6.7			8.7	9.7		9.6		7.9				4.8				7.6	92%M
80 1 UC												7.2											75%M
80 6 MC												6.9											--- M
80 2 UC		0.9			1.9	2.0	2.8																***
80 7 MC						4.6			11	8.1		7.6		6.8				4.8				6.9	88%M
82 3 UC				0.9	1.3	2.0	1.6																***

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

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Table H IRELAND

year	source	% SMOKERS				product code	ORIGINAL		CIGARETTES PER MAN & PER WOMAN		ADJUSTED		ADJUSTED	
		product /freq code	man cigs m w	tot cigs m w	all prods m w		per man	per woman	product adjust factor	to MAN per man	CIGS per woman	to TOT per man	CIGS per woman	
40														
41														
42														
43														
44														
45														
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														
56														
57														
58														
59														
60														
61	7	MC/A	59 36			MC	10.4	3.6	M 93	11.2	3.8			
62	7	A/A			69 36									
63														
64														
65														
66														
67	7	MC/A	54 37			MC	9.7	4.7	M 93	10.4	5.0			
	7	A/A			64 38									
	10	U/U			68 39				M (	10.6	4.8)			
68														
69														
70														
71	7	MC/A	55 42			MC	10.6	5.8	M 101	10.6	5.8			
	7	A/A			65 42									
72														
73	8	UC/R		49 36					M (	11.4	6.8)			
74	8	UC/R		47 36					M (	12.0	7.4)			
75	6					MC	11.9	7.7	M ---	11.9	7.7			
	7	MC/A	50 43			MC	10.7	6.9	M 92	11.7	7.5			
	7	A/A			60 44									
	8	UC/R		44 36					M (	11.6	7.6)			
76	8	UC/R		44 34					M (	11.4	7.0)			
77	1	UC/U		43 33					M (	10.9	6.7)			
	8	UC/R		42 33					M (	10.8	6.8)			
78	8	UC/R		43 33					M (	11.4	7.0)			
79	8	UC/R		40 30					M (	11.1	6.7)			
	9	UC/U		37 33					M (	10.4	7.4)			
80	1	UC/U		38 32		UC	7.6	5.4	M 75	10.2	7.2			
	6					MC	11.0	6.9	M ---	11.0	6.9			
	7	MC/A	44 35			MC	9.4	6.0	M 88	10.6	6.8			
	7	A/A			53 35									
	8	UC/R		41 31					M (	10.9	6.6)			
81														
82														
83														
84														
85														

2501

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Israel

Source  
number

- 1 Ref: Goldbourt and Medalie (1975), WHO (1978)  
GFT table no: 2.1  
Note: 1. Israel Ischaemic Heart Disease Project, sample size 10,000 men.  
2. Substantial differences by country of origin and period of immigration.  
3. Interval estimation based on 1-10,11-20,21+
- 2 Ref: Figures for males from Kark et al (1979), for females from Gofin et al (1981)  
GFT table no: 2.2  
Note: 1. Racial coverage and sample sizes unknown, details available in Hebrew  
2. Figures relate to 1969-71
- 3 Ref: Gofin et al (1982)  
GFT table no: 2.3  
Note: 1. As table 1  
2. Based on a sample from Jerusalem. Persons of North African origin had the highest proportion of smokers; those of European origin had the lowest
- 4 Ref: Ben-Sira (1983) and Epstein and Biger (1984)  
GFT table no: 2.4,3.2  
Note: 1. Based on surveys of Jewish population (excluding Kibbutzim) by Israel Institute of Applied Social Research. In the 1983 survey, 830 adults aged 20+ and 282 teenagers aged 14-18 were interviewed. Results published (in Hebrew) by Ben Sira (1983). The paper by Epstein and Biger (in English and unpublished) contained special analyses by the Israel Institute of Applied Social Research  
2. Interval estimation based on % smokers and % of smokers who smoked 21+ cigarettes  
3. Guesstimates for age 15-19, % smokers, Male:30; Female 1972-76,79:20, 1981,83:15. Cigs per person, Male:5.0; Female:3.0
- 5 Ref: Kark et al (1979) and Gofin et al (1981)  
GFT table no: 5
- 6 Ref: Tamir et al (1982)  
GFT table no: 5
- 7 Ref: Halfon et al (1982)  
GFT table no: 5

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Note: Based on sample of 17 year old persons in Jerusalem. Smoking was most common among those of North African extraction and least common among those of European origin, as for adults in table 3

- 8 Ref: Zoller and Maymon (1983)  
GFT table no: 5
- 9 Ref: Ben-Sira (1983)  
GFT table no: 5  
See note 1 to table 4
- 10 Ref: Geizerova and Masironi (1987)  
Note: No original reference given

National consumption data

All manufactured cigarette data from Maxwell International Estimates.

No data available on other products.

Population data up to 1974 are for Jewish population only, thereafter for total population.

1982 consumption figures used for 1983 calculation.

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Israel

Ben-Sira Z (1983) Smoking amongst adults and youths. Israel Institute for Applied Social Research, Jerusalem.

Epstein L and Biger C (1984) Cigarette smoking in Israel: Prevalence and control. Unpublished.

Geizerova H and Masironi R (1987) Cigarette Smoking in Children and Adolescents: World Review. In: Aoki M, Hisamichi S and Tominaga S (Eds) Smoking and Health 1987. Proceedings of 6th World Conference on Smoking and Health, Tokyo

Gofin J, Kark E et al (1981) Prevalence of selected health characteristics of women and comparison with men. Israel Journal of Medical Science, 17, 145-149

Gofin J, Kark JD et al (1982) Cigarette smoking and its relation to anthropometric characteristics and biochemical variables in Jerusalem, 17 year olds and adults. Israel Journal of Medical Science, 18, 1233-1241

Goldbourt U and Medalie JH (1975) Characteristics of smokers, non-smokers and re-smokers among 10,000 adult males in Israel. I. Israel Journal of Medical Science, 11, 1079-1101

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Kark SL, Gofin J et al (1979) Prevalence of selected health characteristics of men. Israel Journal of Medical Science, 15, 732-741

Tamir A, Wolff H and Epstein M (1982) Health-related behaviour in Israel adolescents. Journal of Adolescent Health Care, 2, 261-265

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2501185951

Table A ISRAEL

## Consumption of Cigarettes and of All Tobacco

Sales based data, including estimates of consumption of handrolled cigarettes

Year	Manufactured Cigarettes		Hand-rolled Cigarettes		Total Cigarettes		Total Tobacco	
	total millions annual	n per adult daily	total millions annual	n per adult daily	total millions annual	n per adult daily	total tonnes annual	grams per adult daily
1950								
1951								
1952								
1953								
1954								
1955								
1956								
1957								
1958								
1959								
1960								
1961								
1962								
1963								
1964								
1965								
1966								
1967	3200	5.4						
1968	3340	5.5						
1969	3682	5.9						
1970	3867	6.0						
1971	4100	6.2						
1972	4400	6.4						
1973	5000	7.1						
1974	5200	7.2						
1975	5600	6.6						
1976	5500	6.4						
1977	5500	6.2						
1978	5800	6.5						
1979	5700	6.2						
1980	5600	5.9						
1981	6000	6.2						
1982	6200	6.3						
1983	6200	6.2						
1984								
1985								

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## D Israel Male Percentage of smokers

frequency product source year	age group																					all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +	
63 1 UC R													56	51	49	46			43			
63 1 A U													57	52	50	48			45			
70 2 U U										54		59		52		34		32		34		
70 5 U U					31																	
72 4 U U															43							
73 4 U U										55						36						41
74 4 U U										56						40						48
75 4 U U										63						34						44
76 4 U U															45							
78 6 U U						26																
79 4 U U										50						41						43
79 7 U U						31																
80 3 U U												40		42		34			28			
80 8 U U					25																	
81 4 U U														47								
83 4 U U										50						38						44
83 9 U U					17																	
84 10 U U			34																			

## D Israel Female Percentage of smokers

frequency product source year	age group																					all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +	
63 1 UC R																						
63 1 A U																						
70 2 U U										35		31		27		16		22		7		
70 5 U U					18																	
72 4 U U															30							
73 4 U U										41						33						36
74 4 U U										34						28						31
75 4 U U										40						27						34
76 4 U U															34							
78 6 U U						17																
79 4 U U										32						27						29
79 7 U U						19																
80 3 U U												28		20		16						
80 8 U U					13																	
81 4 U U														29								
83 4 U U										35						22						30
83 9 U U					11																	
84 10 U U			21																			

2501185953

U unspecified \* refer to notes  
 Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 Frequency: A all smokers (including occasional), R regular or daily smokers  
 All ages: relevant to ages used and as given in original source

## E Israel Male Cigarettes per smoker per day

product source year	age group																				all ages			
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +		
63	1	UCI												21	20	19	19	18					20	
73	4	UCI*								22				19										
74	4	UCI*								19				20										
75	4	UCI*								21				21										
79	4	UCI*								24				22										
83	4	UCI*								20				19										

## E Israel Female Cigarettes per smoker per day

product source year	age group																					all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +	
63 1 UCI																						
73 4 UCI*										16								15				
74 4 UCI*										16								16				
75 4 UCI*										17								16				
79 4 UCI*										17								15				
83 4 UCI*										16								17				

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Product: U unspecified \* refer to notes  
 MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 I indicates mean calculated from %s in intervals  
 All ages: relevant to ages used and as given in original source

## F Israel Male Cigarettes per person per day

product source year	age group																				all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +	
63 1 UC													12	10	9.5	8.8			7.7		9.9	***
73 4 UC *										12							6.8					100% <sub>m</sub>
74 4 UC *										11							8.0					92% <sub>m</sub>
75 4 UC *										13							7.0					97% <sub>m</sub>
79 4 UC *										12							8.8					113% <sub>m</sub>
83 4 UC *										10							7.3					101% <sub>m</sub>

## F Israel Female Cigarettes per person per day

product source year	age group																					all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +		
63 1 UC																							***
73 4 UC *									6.6				5.1										100% <sub>m</sub>
74 4 UC *									5.3				4.4										92% <sub>m</sub>
75 4 UC *									2.7				4.4										97% <sub>m</sub>
79 4 UC *									5.3				3.9										113% <sub>m</sub>
83 4 UC *									5.7				3.6										101% <sub>m</sub>

Product: U unspecified \* refer to notes  
 All ages: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 % total sales: relevant to ages used and as given in original source  
 % of national sales of M manufactured or T total cigarettes implied by survey  
 m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown  
 \*\*\* cannot be calculated --- adjusted by original author

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## G Israel Male Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +	
63 1 UC													12	10	9.5	8.8	7.7						9.9	***
73 4 UC *									12				6.8							100% <sub>m</sub>				
74 4 UC *									11				8.7							92% <sub>m</sub>				
75 4 UC *									14				7.2							97% <sub>m</sub>				
79 4 UC *									11				7.8							113% <sub>m</sub>				
83 4 UC *									10				7.2							101% <sub>m</sub>				

## G Israel Female Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		
63 1 UC																						***
73 4 UC *									6.6				5.1									100% <sub>m</sub>
74 4 UC *									5.8				4.8									92% <sub>m</sub>
75 4 UC *									2.8				4.5									97% <sub>m</sub>
79 4 UC *									4.7				3.5									113% <sub>m</sub>
83 4 UC *									5.6				3.6									101% <sub>m</sub>

U unspecified \* refer to notes  
 Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 All ages: relevant to ages used and as given in original source  
 % total sales: % of national sales of M manufactured or T total cigarettes implied by survey  
 m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown  
 \*\*\* cannot be calculated --- adjusted by original author

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Table H ISRAEL

year	source	% SMOKERS				CIGARETTES PER MAN & PER WOMAN										
		product /freq code	man cigs		tot cigs		all prods		product code	ORIGINAL		product adjust factor	ADJUSTED to MAN CIGS		ADJUSTED to TOT CIGS	
			m	w	m	w	m	w		per man	per woman		per man	per woman	per man	per woman
50																
51																
52																
53																
54																
55																
56																
57																
58																
59																
60																
61																
62																
63																
64																
65																
66																
67																
68																
69																
70																
71																
72	4	U/U					41	29				m	(	8.3	4.6)	
73	4								UCI*	8.7	5.4	m 100		8.7	5.4	
	4	U/U					43	35								
74	4								UCI*	8.6	4.6	m 92		9.4	5.0	
	4	U/U					45	29								
75	4								UCI*	9.3	3.5	m 97		9.7	3.6	
	4	U/U					46	31								
76	4	U/U					43	32				m	(	8.0	4.8)	
77																
78																
79	4								UCI*	9.7	4.4	m 113		8.5	3.9	
	4	U/U					44	28								
80																
81	4	U/U					45	27				m	(	8.4	4.1)	
82																
83	4								UCI*	8.3	4.4	m 101		8.2	4.4	
	4	U/U					42	27								
84																
85																

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Italy

Source  
number

- 1 Ref: ISTAT (1982) tables 63 and 73, Bolzan et al (1981) and La Vecchia (1986).  
GFT table no: 2.1,3  
Note: 1. National survey of health conditions and health care services. Sample size 21,926 men and 23,470 women.  
2. There were only 11 female pipe/cigar smokers.  
3. Interval estimation based on 1-5,6-10,11-20,21-30,31+  
4. Guesstimate for age 70+, cigs per person, Male:3.0; Female:0.1
- 3 Ref: Modolo et al (1984)  
GFT table no: 5.1  
Note: 1. Research by the Italian League against Cancer, carried out by Centro Sperimentale per l'Educazione Sanitaria, Perugia University  
2. Based on a sample of 10,000 high school students in 10 towns in Italy  
3. Regular smokers defined as 1 or more cigarettes per day  
4. Consumptions based on regular smokers
- 4 Ref: From Todd (1986)  
GFT table no: 4.1  
Note: Legally sold cigarettes, estimated by Todd
- 5 Ref: World Health Organization, Regional Office for Europe, 1975, probably quoting figures from ISTAT  
GFT table no: 4.2  
Note: These figures represent 154% of legally sold cigarettes. As they have presumably been estimated to include clandestine sales, no adjustment has been made.
- 6 Ref: Modolo (1977)  
Note: 1. Two surveys of second-level secondary school students in Perugia (central Italy). Sample sizes 1962 - 1250 boys, 609 girls; 1972 - 1915 boys, 1655 girls  
2. Regular smokers defined as 1+ per day
- 7 Ref: Merzdorf (1982) quoting Readers Digest (1963)  
Note: 1. ".... the strikingly high proportion of female smokers ... is all the more surprising in view of the fact in other countries the proportion of women who smoke was consistently underestimated in this study."  
2. Guesstimates for age 15-20, % smokers A, Male:50; Female:27. % smokers UC, Male:46; Female:27

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- 8 Source Bartolini et al (1977)  
Note: 1. Based on sample of 931 "young workers"  
2. It is not clear whether consumption per smoker is based on "all" or "regular" smokers. Calculation of consumption per person assumed "all".
- 9 Ref: Merzdorf (1982) quoting Industry Research
- 10 Ref: ASM (private communication)  
Note: 1. Representative sample of 547M, 576F  
2. Guesstimates for age 65+, % smokers, Male:40; Female:5
- 11 Ref: ASM (1981)  
Note: 1. Confidential?  
2. Representative sample of 1096 women  
3. Interval estimation based on packs/week <2,2-4,5-6,7,8-10,11-13,14,>14 (equivalents assumed 1-5,6-14,15-19,20,21-29,30-39,40,>40 cigs/day)  
4. Guesstimate for age 65+, % smokers, Female:5
- 12 Ref: Tonelli et al (1980)  
Note: 1. Schoolchildren in Bologna, sample size 907M, 1017F  
2. Interval estimation based on <6,6-10,>10 per week
- 13 Ref: Modolo et al (1980)  
Note: 1. Survey of schoolchildren in Rome in 1973  
2. Regional survey in 1977, age group unknown
- 14 Ref: La Vecchia (1986) quoting DOXA (1950), (1958), (1966), and (1978)  
Note: 1. Sample based surveys of 4,000-6,000 subjects (1949 survey non-random sampling) by DOXA Marketing Research Institute on behalf of Italian State Monopoly  
2. Consumption per person based on % smokers, unspecified, and average cigarettes per day, on unspecified base.  
3. In 1949, over 5% of smokers used HR cigs only and over 25% used both man. and HR.  
4. The figures for 1949 and 1957 represent 277% and 136% respectively of legally sold cigarettes and have not been adjusted. (1949 calculation based on 1946-50 consumption and 1950 population).  
5. Guesstimates for age 15-17. 1949, % smokers, Male:50; Female:8. Cigs per person, Male:5.0; Female:1.0. For age 15, 1957 and 1965, % smokers Male:40; Female 1957:5, 1965:8. Cigs per person, Male:3.0; Female:1.0
- 15 Ref: La Vecchia (1986) quoting ISTAT (1984)
- 16 Ref: Research Group ATS-RFZ of the Italian National Research Council (1981)  
Note: Pooled results from 9 population samples in 8 regions. Sample size 6699. Year uncertain.

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- 17 Ref: ITL Market Research Dept.  
Note: 1. Confidential  
2. Nationally representative consumer survey, sample size 2000
- 18 Ref: Pastega (1981)  
Note: Survey in 9 schools in Venice, questionnaires completed anonymously in class. Sample size 2196. Year unknown
- 19 Ref: Masironi and Roy (1981) quoting Modolo et al (no details of original reference)  
Note: Survey in central Italy
- 20-21 Ref: WHO (1989)  
Note: 1. 2 regional surveys forming part of WHO MONICA Project
- | Region         | Population size | Sample size | Participation rate% | Sample used<br>M F | Date        |
|----------------|-----------------|-------------|---------------------|--------------------|-------------|
| 20 Area Latina | 260000          | 1834        | 76                  | 893 893            | 05.82-03.85 |
| 21 Friuli      | 394100          | 1795        | 81                  | 935 923            | 12.85-09.87 |
- (whole country 21.3mn)  
Sample used includes age 25-34, all other figures are for age 35-64 only.
- Overall % relates only to age 35-64.
  - Regular cigarette smokers defined as those who smoked cigarettes every day. All smokers additionally includes those who smoked cigarettes occasionally, or lg. pipe tobacco per week, or 1 cigar per week.
  - Survey in Area Brianza has been omitted since it was carried out after the period considered in this report.
- 22 Ref: Geizerova and Masironi (1987)  
Note: No original reference given

#### General note

Population figures to 1949 and consumption figures to 1954 are averages over 5-year periods, from Lee (1975)

Data for consumption of man. cigs. for 1974-83, Ref: AMS, Direzione Centrale, Responsabile per la relazioni con la stampa.

Consumptions of cigarettes by weight were obtained from numbers by using a conversion factor of lg per cigarette, as used in RP6; the conversion factors for cigars and cigarillos were respectively 5g and 2.5g, but as only combined data was available after 1974, a weighted average of 4.5g was used.

Data for total tobacco sales 1980-85 from La Vecchia (1989). Awaiting further information.

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Consumption figures are of legally sold cigarettes. Merzdorf (1982) estimated smuggled cigarettes as further 18% for 1960-80; La Vecchia (1986) estimated at least 10% and possibly 20-30%.

There is little evidence on which to base estimates of HR consumption. Manstrandrea et al (1984) state that "although reliable data are lacking, it seems that hand-rolling of cigarettes was a well-established habit in Italy, as in other countries, especially up to about 1950." Merzdorf et al (1982) based estimates on the assumption that all smoking tobacco was used in HR. However, there appears always to have been a small percentage of non-cigarette smokers (see Table D), presumably comprising pipe and cigar smokers. We have used estimates based on 90% of smoking tobacco, at 1g per cigarette.

2501185961

Italy

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2501185963

Table A ITALY

Consumption of Cigarettes and of All Tobacco  
 Sales based data, including estimates of consumption of handrolled cigarettes

Year	Manufactured Cigarettes		Hand-rolled Cigarettes		Total Cigarettes		Total Tobacco	
	total millions annual	n per adult daily	total millions annual	n per adult daily	total millions annual	n per adult daily	total tonnes annual	grams per adult daily
1923	11148	1.2					27600	2.9
1928	13900	1.4					29400	2.9
1933	12911	1.2					24400	2.3
1938	17342	1.6					27800	2.5
1943	20748	1.8					30700	2.6
1948	22347	1.8					30700	2.5
1949	22347	1.8						
1950								
1951								
1952								
1953	33978	2.6	4590	0.4	38568	3.0	41900	3.2
1954								
1955								
1956	40398	3.0	4770	0.4	45168	3.4	48000	3.6
1957	42658	3.2	4590	0.3	47248	3.5	50000	3.7
1958	44906	3.3	4410	0.3	49316	3.6	52300	3.8
1959	46584	3.4	4050	0.3	50634	3.7	54000	3.9
1960	48313	3.5	4590	0.3	52903	3.8	55500	4.0
1961	51864	3.7	4410	0.3	56274	4.0	58700	4.2
1962	55826	4.0	4050	0.3	59876	4.3	62400	4.4
1963	57154	4.0	3870	0.3	61024	4.3	63400	4.5
1964	58599	4.1	3690	0.3	62289	4.4	64600	4.5
1965	60621	4.2	3420	0.2	64041	4.5	66100	4.6
1966	64645	4.5	3150	0.2	67795	4.7	69800	4.8
1967	66657	4.6	3240	0.2	69897	4.8	71700	4.9
1968	68454	4.7	3060	0.2	71514	4.9	73300	5.0
1969	68563	4.7	2880	0.2	71443	4.9	73200	5.0
1970	69534	4.7	2610	0.2	72144	4.9	73700	5.0
1971	70830	4.7	2430	0.2	73260	4.9	74800	5.0
1972	74165	4.9	2160	0.1	76325	5.1	77800	5.2
1973	80131	5.3	2070	0.1	82201	5.4	83500	5.5
1974	87500	5.7	1800	0.1	89300	5.8		
1975	88800	5.7	1620	0.1	90420	5.8		
1976	89700	5.7	1530	0.1	91230	5.8		
1977	90300	5.7	1350	0.1	91650	5.8		
1978	88800	5.6	1260	0.1	90060	5.7		
1979	96800	6.1	1170	0.1	97970	6.2		
1980	98700	6.1	1080	0.1	99780	6.1	100700	6.2
1981	100900	6.1	1080	0.1	101980	6.2	103000	6.3
1982	101600	6.3	900	0.1	102500	6.3	103500	6.4
1983	102300	6.2	810	0.0	103110	6.3	104000	6.3
1984							106000	6.4
1985							106800	6.4

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## Italy

Table B

Total sales of tobacco products, 1974-85

Year	Cigarettes million = tons (assuming 1g per cig)	Cigars & cigarillos millions	Cigars & Cigarillos tons (assuming 4.5g per ci)	Smoking tobacco tons	Snuff tons	Total Weight (calculated)	Total (La Vecchia)
1974	87,500	210	945	2,000	140	90,585	
1975	88,800	200	900	1,800	130	91,630	
1976	89,700	190	855	1,700	120	92,375	
1977	90,300	190	855	1,500	110	92,765	
1978	88,800	160	720	1,400	100	91,020	
1979	96,800	170	765	1,300	100	98,965	
1980	98,700	180	810	1,200	90	100,800	100,700
1981	100,900	190	855	1,200	80	103,035	103,000
1982	101,600	190	855	1,000	80	103,535	103,500
1983	102,300	190	855	900	70	104,125	104,000
1984	awaiting data						106,000
1985							106,800

Table C

% of tobacco consumed in different forms, by weight, 1974-85

Year	%cigarettes	%cigars & cigarillos	%smoking tobacco	%snuff
1974	96.59	1.04	2.21	.15
1975	96.91	.98	1.96	.14
1976	97.10	.93	1.84	.13
1977	97.34	.92	1.62	.12
1978	97.56	.79	1.54	.11
1979	97.81	.77	1.31	.10
1980	97.92	.80	1.19	.09
1981	97.93	.83	1.16	.08
1982	98.13	.83	.97	.08
1983	98.25	.82	.86	.07
1984				
1985				

2501185965



frequency product source year	age group																				all ages		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +	
49 14 U U											71												
57 14 U U											65												
62 6 U R					33	43	45	59	73	67													
62 6 U A					52	63	61	67	79	75													
63 7 UC U											46												
63 7 A U											50												
65 14 U U						55					61		68		66		53				60		
72 6 U R					46	59	69	73	79	82													
72 6 U A					64	75	78	85	86	90													
72 19 U U						51																	
73 12 U U				34																			
73 13 U U				39																			
73 17 UC U						60					70		63		64			44			58		
73 17 A U						61					70		63		65			50			60		
75 14 U U						53																	
76 16 U U											56		57		54		51						55
77 8 UC R					29																		
77 8 UC A					38																		
77 13 U U						62																	
79 9 UC A						67																	
79 9 A A						68																	
80 1 UC U					44					64		61		61		48		31		53			
80 1 A U					23					61		65		62		62		52		39	54		
80 1 U U				2	6	16	31	43	42														
80 18 U U	1	4	13	19	27	42	48	39															
80 22 U U							39																
81 3 U R					13				31														
81 3 U A					24				42														
81 11 U U																							
82 10 U U					54																		
83 15 A U					46																		
83 20 UC R											60		50		49		46						49
83 20 A A											62		53		52		48						51
85 21 UC R											49		39		36		27						35
85 21 A A											55		42		38		30						38

2501185966

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 Frequency: A all smokers (including occasional), R regular or daily smokers  
 All ages: relevant to ages used and as given in original source

## D Italy

## Female Percentage of smokers

frequency product source year	age group																					all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +		
49 14 U U									10														
57 14 U U					6																		
62 6 U R				6	12	8	23	25	27														
62 6 U A				16	29	30	47	60	69														
63 7 UC U									27														
63 7 A U									27														
65 14 U U					9					9	11	8	4							8			
72 6 U R				38	53	53	51	57	61														
72 6 U A				63	78	78	81	83	81														
72 19 U U				55																			
73 12 U U			24																				
73 13 U U			29																				
73 17 UC U				35					27	16	11				6				16				
73 17 A U				37					27	16	11				6				17				
75 14 U U				16																			
76 16 U U									42	29	16	14								26			
77 8 UC R			25																				
77 8 UC A			39																				
77 13 U U				32																			
79 9 UC A				18																			
79 9 A A				18																			
80 1 UC U			10					32	26	18	13	7	3			17							
80 1 A U			10					32	26	18	13	7	3			17							
80 1 U U			0	2	8	11	16	23															
80 18 U U	0	5	9	23	26	37	39	47															
80 22 U U						42																	
81 3 U R				12		31																	
81 3 U A				25		47																	
81 11 U U				44					49	38	26	20								37			
82 10 U U				37																			
83 15 A U				18																			
83 20 UC R									36	24	11	7								15			
83 20 A A									42	30	12	7								17			
85 21 UC R									30	30	25	23								26			
85 21 A A									33	32	28	25								29			

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

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## E Italy Male Cigarettes per smoker per day

product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
49 14 UC								14														
57 14 UC						13																
65 14 UC						13																
73 12 UCI			1.3																			
76 16 UC										18	18	19	19									19
77 8 UC			6.5																			
80 1 UCI			11						16	18	19	18	16	14				17				
81 3 UCI				9.7			13															
81 11 UCI																						

## E Italy Female Cigarettes per smoker per day

product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
49 14 UC							7.9															
57 14 UC					7.0																	
65 14 UC					5.8																	
73 12 UCI			0.9																			
76 16 UC									11	11	11	10									11	
77 8 UC			3.5																			
80 1 UCI			8.9						11	11	11	11	12	8.4				11				
81 3 UCI				7.7		8.4																
81 11 UCI				10						13	9.6	11	10							11		

2501185968

Product: U unspecified \* refer to notes  
 MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 I indicates mean calculated from %s in intervals  
 All ages: relevant to ages used and as given in original source

F Italy

Male Cigarettes per person per day

product source year	age group																					all ages	% total sales		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +				
49 14 UC *									9.6														--- *		
57 14 UC *						8.6																	--- *		
65 14 UC *						8.0																	90%T		
72 5 UC					10																		--- M		
73 12 UC				0.4																			***		
76 16 UC									10		10		10		10									10	***
77 8 UC *				2.5																			***		
80 1 UC				6.7						12		12		11		7.9		4.3					9.0	83%T	
80 4 MC					10																		--- M		
81 3 UC					1.3				4.2														***		
81 11 UC																							***		

F Italy

Female Cigarettes per person per day

product source year	age group																					all ages	% total sales		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +				
49 14 UC *								0.8															--- *		
57 14 UC *						0.4																	--- *		
65 14 UC *						0.4																	90%T		
72 5 UC					5.1																		--- M		
73 12 UC				0.2																			***		
76 16 UC									4		4		2		1									3	***
77 8 UC *				1.4																			***		
80 1 UC				2.3						3.0		1.9		1.5		0.8		0.2					1.8	83%T	
80 4 MC					2.0																		--- M		
81 3 UC					1.0				2.6														***		
81 11 UC					4.4					6.5		3.7		2.9		2.0							4.0	***	

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

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## G Italy

## Male Cigarettes per person per day adjusted

product source year	age group																					all ages	% total sales		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +				
49 14 UC *								9.6															---	*	
57 14 UC *						8.6																	---	*	
65 14 UC *						8.9																	90%	T	
72 5 UC					10																		---	M	
73 12 UC				0.4																			***		
76 16 UC									10	10		10		10									10	***	
77 8 UC *				2.5																			***		
80 1 UC				8.0					14		14		13		9.5		5.2					11	83%	T	
80 4 MC					10																		---	M	
81 3 UC					1.3				4.2															***	
81 11 UC																							***		

## G Italy

## Female Cigarettes per person per day adjusted

product source year	age group																					all ages	% total sales	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +			
49 14 UC *								0.8															---	*
57 14 UC *						0.4																	---	*
65 14 UC *						0.4																	90%	T
72 5 UC				5.1																			---	M
73 12 UC			0.2																				***	
76 16 UC									4		4		2		1							3	***	
77 8 UC *				1.4																			***	
80 1 UC				2.8					3.6		2.3		1.8		1.0		0.2				2.2	83%	T	
80 4 MC					2.0																		---	M
81 3 UC					1.0			2.6															***	
81 11 UC					4.4					6.5		3.7		2.9		2.0						4.0	***	

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

All ages: relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

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Table H ITALY

year	source	% SMOKERS				CIGARETTES PER MAN & PER WOMAN										
		product /freq code	man cigs		tot cigs		all prods		product code	ORIGINAL		product adjust factor	ADJUSTED to MAN CIGS		ADJUSTED to TOT CIGS	
			m	w	m	w	m	w		per man	per woman		per man	per woman	per man	per woman
43																
48																
49	14							UC *	9.3	0.8	* ---	9.3	0.8			
	14	U/U					70	10								
50																
51																
52																
53																
54																
55																
56																
57	14							UC *	8.5	0.4	* ---	8.5	0.4			
	14	U/U					64	6								
58																
59																
60																
61																
62																
63	7	UC/U			46	27					T				(	5.9 2.8)
	7	A/U					50	27								
64																
65	14							UC *	7.9	0.4	T 90				8.8	0.5
	14	U/U					59	8								
66																
67																
68																
69																
70																
71																
72	5							UC	10.3	5.1	M ---	10.3	5.1			
73	17	UC/U			62	18					T				(	9.0 2.1)
	17	A/U					63	19								
74																
75	14	U/U					53	16								
76																
77	13	U/U					62	32			T				(	8.4 3.5)
78																
79	9	UC/A			67	18										
	9	A/A					68	18								
80	1	UC/U			52	17		UCI	9.0	1.5	T 83				10.8	1.8
	4							MC	10.0	2.0	M ---	10.0	2.0			
	1	A/U					54	17								
81	11							UCI		3.3						
	11	U/U														
82	10	U/U					52	31			M	(	8.6	4.1)		
83	15	A/U					46	18								
84																
85																

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Japan

Source  
number

- 1 Ref: Japan Tobacco and Salt Public Corporation (1975)  
GFT table no: 2.1,3.1  
Note: 1. Consumption per smoker is presumably per regular smoker  
2. Guesstimates for age 15-19, % smokers, Male:40;  
Female:5. Cigs per person, Male:1970-71:8.0,  
1972-73:9.0, 1974:10.0; Female:0.5
- 2 Ref: Statistics Bureau, Management and Coordination Agency,  
Tokyo  
GFT table no: 2.2,3.2  
Note: Guesstimates for age 15-19, % smokers, Male:40;  
Female:8. Cigs per person, Male:9.0; Female:1.0
- 3 Ref: WHO (1978)  
Note: Guesstimates for age 15-19, % smokers, Male:40;  
Female:5
- 5 Ref: Onodera (1987)  
Note: 1. Presumably age 20+  
2. Guesstimates for age 15-19, % smokers, Male:40; Female  
to 1979:5; 1980 onwards:8
- 6 Ref: Hirayama (1967)  
Note: 1. Based on a prospective study of 265118 adults being  
over 90% of the population in 29 selected districts  
2. Adjusted by the author to exclude "unknown" and "no  
answer" categories.
- 7 Source Unpublished data supplied by JTS  
Note: 1. Confidential  
2. % smokers taken from tables 1,3,5 for calculation of  
consumption per person. % regular smokers used if  
available, \* indicates that % including occasional  
smokers was used.  
3. Guesstimates for age 15-19, cigs per person,  
Male:1967-69:8.0, 1975-79:10.0; Female:1967-69:0.5;  
1976-79:1.0
- 8 Ref: Shiramizu and Shibata (1985)  
Note: 1. 4303 boys and 4172 girls at 11 junior high schools.  
Age unknown, presumed 12-15  
2. Interval estimation based on  $\leq 5, 6-10, \geq 11$
- 9 Ref: Ueshima et al (1987) quoting National Tobacco Public  
Information Association

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- 10      Ref:      Ogawa et al (1988)  
Note: 1. Survey covering entire student population of 3 junior high schools in Nagoya City. Sample size 3090  
2. Questionnaire completed anonymously in class
- 11      Ref:      Shimao (1988)  
Note: 1. Estimated from reports by several research workers, which showed marked variation  
2. Age and year unknown (senior high school)
- 12      Ref:      Saito (1988)  
Note: 1. Survey of 353 M and 1960 F freshmen at universities in Tokyo  
2. Subjects were aged 17-21, but predominantly 18-19 year olds (sample 1707 F). Results for 20-21 year olds taken from graph  
3. Year unknown  
4. Regular smokers were those who smoked every day; all smokers also includes those who smoke once or twice a week
- 13      Ref:      Hiraoka et al (1988)  
Note: 1. Sophomore students attending university or college (age unknown)  
2. Survey conducted June-July. Questionnaire applied by secret self-register system, distributed by teachers in school hours  
3. Smoked once or more a week
- 14      Ref:      Geizerova and Masironi (1987)  
Note:      No original reference given

#### General note

According to Shimao (1988), an Act prohibiting minors from smoking was enacted in 1900, the Government being worried about ill-effects of smoking on bringing up healthy, strong soldiers. The law had been well observed until the 1950s, but thereafter smoking in both junior and senior high schools became a problem. Because of the presence of the Act, it was regarded as a problem of juvenile delinquency rather than health.

We have estimated HR cigarette consumption as using all sales of fine cut tobacco at 1g per cigarette.

Data from 1970 onwards, Ref:      Japan Tobacco Inc.

The data for 1970-84 include imports which were excluded from RP6 (eg 0.3% of cigarettes, 49% of pipe tobacco and 56% of cigars in 1970). Sales to Imperial Household Agency (assumed to be cigarettes) have also been included (available up to 1979). The tobacco products market was opened in 1985 and data are not available for imports of products other than cigarettes; cigarette imports are available as 100 millions.

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In 1984, imports accounted for 2% cigarettes, 70% pipe tobacco and 52% cigars. Figures for cigars for 1970-73 are substantially higher than those given in RP6 apparently due to exclusion of cigarillos. Awaiting data on imports/cigarillo before 1970. Classification of fine cut tobacco was changed in 1985.

2501185974

Japan

Geizerova H and Masironi R (1987) Cigarette Smoking in Children and Adolescents: World Review. In: Aoki M, Hisamichi S and Tominaga S (Eds) Smoking and Health 1987. Proceedings of 6th World Conference on Smoking and Health, Tokyo

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Hirayama T (1967) Smoking in relation to the death rates of 265,118 men and women in Japan.???

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Onodera N (1987) Non-smokers' right and public health. In: Aoki M, Hisamichi S and Tominaga S, Eds, Smoking and Health 1987, Proceedings of the 6th World Conference on Smoking and Health, Tokyo. Excerpta Medica, ICS 780

Saito R (1988) Smoking among young women in Japan. In: Aoki M, Hisamichi S and Tominaga S, Eds, Smoking and Health 1987, Proceedings of the 6th World Conference on Smoking and Health, Tokyo. Excerpta Medica, ICS 780

Shimao T (1988) Smoking and its control in Japan. In: Aoki M, Hisamichi S and Tominaga S, Eds, Smoking and Health 1987, Proceedings of the 6th World Conference on Smoking and Health, Tokyo. Excerpta Medica, ICS 780

Shiramizu M and Shibata A (1985). A study on factors concerned with smoking behaviours among pupils of Junior High School. Part 2. Knowledge of disease caused by smoking and living environment associated with smoking behaviour. Jap.J.Hyg., 40, 651-658 (English summary)

The Japan Tobacco and Salt Public Corporation (1975). Data concerning smoking in Japan

Ueshima H, Tatara K and Asakura S (1987). Declining mortality from ischaemic heart disease and changes in coronary risk factors in Japan, 1956-1980. American Journal of Epidemiology, 125, 62-72

World Health Organisation Expert Committee on Smoking control. Tobacco smoking in the World. WHO, 1978

2501185975

Table A JAPAN

Consumption of Cigarettes and of All Tobacco  
Sales based data, including estimates of consumption of handrolled cigarettes

Year	Manufactured Cigarettes		Hand-rolled Cigarettes		Total Cigarettes		Total Tobacco	
	total millions annual	n per adult daily	total millions annual	n per adult daily	total millions annual	n per adult daily	total tonnes annual	grams per adult daily
1920	20954	1.6	26200	2.0	47154	3.7	47200	3.7
1921	22732	1.7	26100	2.0	48832	3.8	48800	3.8
1922	24031	1.8	25200	1.9	49231	3.7	49200	3.7
1923	27220	2.0	24600	1.8	51820	3.9	51900	3.9
1924	28943	2.1	23800	1.8	52743	3.9	52700	3.9
1925	27273	2.0	23600	1.7	50873	3.7	50900	3.7
1926	27205	2.0	23800	1.7	51005	3.7	51000	3.7
1927	29178	2.1	23900	1.7	53078	3.8	53100	3.8
1928	30954	2.2	23000	1.6	53954	3.8	53900	3.8
1929	31664	2.2	23600	1.6	55264	3.8	55200	3.8
1930	30201	2.0	23500	1.6	53701	3.6	53700	3.6
1931	29368	2.0	22900	1.5	52268	3.5	52200	3.5
1932	31831	2.1	23200	1.5	55031	3.6	55000	3.6
1933	33536	2.2	22700	1.5	56236	3.7	56200	3.6
1934	36625	2.3	22200	1.4	58825	3.8	58900	3.8
1935	37907	2.4	21600	1.4	59507	3.8	59500	3.8
1936	38477	2.4	20900	1.3	59377	3.7	59400	3.7
1937	40641	2.5	21600	1.3	62241	3.8	62200	3.8
1938	40974	2.5	20200	1.2	61174	3.7	61100	3.7
1939	48125	2.9	18600	1.1	66725	4.0	66700	4.0
1940	51381	3.1	19600	1.2	70981	4.3	71000	4.3
1941	52428	3.1	18700	1.1	71128	4.2	71200	4.2
1942	53830	3.2	19300	1.1	73130	4.3	73100	4.3
1943	54258	3.1	18900	1.1	73158	4.2	73200	4.2
1944	45770	2.6	18500	1.1	64270	3.7	64300	3.7
1945	14691	0.9	16300	0.9	30991	1.8	31000	1.8
1946	15715	0.8	31700	1.7	47415	2.5	47400	2.5
1947	17843	1.0	29300	1.6	47143	2.6	47200	2.6
1948	34263	1.8	22600	1.2	56863	3.0	57100	3.0
1949	52744	2.7	13100	0.7	65844	3.4	65900	3.4
1950	65298	3.3	9800	0.5	75098	3.8	75200	3.8
1951	73995	3.7	9000	0.4	82995	4.1	83000	4.1
1952	80177	3.9	8000	0.4	88177	4.3	88300	4.3
1953	89516	4.3	7300	0.3	96816	4.6	96900	4.6
1954	95614	4.5	7200	0.3	102814	4.8	102900	4.8
1955	97646	4.5	6500	0.3	104146	4.8	104200	4.8
1956	97212	4.4	5800	0.3	103012	4.6	103100	4.6
1957	101403	4.5	5200	0.2	106603	4.7	106700	4.7
1958	107415	4.6	4900	0.2	112315	4.8	112300	4.8
1959	113196	4.8	4300	0.2	117496	5.0	117500	5.0
1960	122760	5.1	3700	0.2	126460	5.3	126500	5.3
1961	134431	5.6	3000	0.1	137431	5.7	137500	5.7
1962	142013	5.7	2500	0.1	144513	5.8	144500	5.8
1963	151111	5.9	2000	0.1	153111	6.0	153000	6.0
1964	160807	6.2	1800	0.1	162607	6.2	162400	6.2
1965	171449	6.4	1500	0.1	172949	6.5	172800	6.5
1966	181488	6.7	1400	0.1	182888	6.7	182700	6.7
1967	193932	7.0	1000	0.0	194932	7.1	195000	7.1
1968	196709	7.0	950	0.0	197659	7.1	197700	7.1
1969	211316	7.5	860	0.0	212176	7.5	212200	7.5
1970	222880	7.8	614	0.0	223494	7.8	222800	7.8
1971	236324	8.2	405	0.0	236729	8.2	235900	8.1
1972	253984	8.6	408	0.0	254392	8.6	253200	8.5
1973	268727	8.9	376	0.0	269103	9.0	267200	8.9
1974	287118	9.5	359	0.0	287477	9.5		
1975	293112	9.5	360	0.0	293472	9.5		
1976	291448	9.4	327	0.0	291775	9.4		
1977	303845	9.7	294	0.0	304139	9.7		
1978	304719	9.6	292	0.0	305011	9.6		
1979	310774	9.7	94	0.0	310868	9.7		
1980	307665	9.4	13	0.0	307678	9.4		
1981	312054	9.5	18	0.0	312072	9.5		
1982	315073	9.4	10	0.0	315083	9.4		
1983	311731	9.3	9	0.0	311740	9.3		
1984	312597	9.2	8	0.0	312605	9.2		
1985	310726	9.0						

2501185976

Japan

Table B

Total sales of tobacco products, 1970-85

Year	Filter cigarettes	Non-filter cigarettes	Cigarettes with mouthpiece	Imperial Household (assumed cigarettes)	Imported cigarettes	Total cigarettes
	millions	millions	millions	thousands	millions	millions
1970	200,588	21,062	482	3,112	745	222,880
1971	218,404	16,652	393	3,001	872	236,324
1972	238,335	14,005	326	2,930	1,315	253,984
1973	254,488	11,952	252	2,832	2,032	268,727
1974	273,438	10,507	210	2,829	2,960	287,118
1975	280,124	9,551	167	2,891	3,267	293,112
1976	280,127	8,458	145	2,530	2,715	291,448
1977	292,916	7,901	0	2,989	3,025	303,845
1978	293,860	7,264	0	2,794	3,592	304,719
1979	300,185	6,599	0	0	3,990	310,774
1980	298,109	5,852	0	0	3,704	307,665
1981	302,192	5,354	0	0	4,508	312,054
1982	305,406	4,850	0	0	4,817	315,073
1983	301,657	4,387	0	0	5,687	311,731
1984	302,046	4,004	0	0	6,547	312,597
1985	299,517	3,709	0	0	7,500	310,726

Year	Cigars	Cigars tons (assuming 6.8g per cigar)	Fine cut tobacco	Pipe tobacco	Total Weight
	thousands	tons	tons	kgs	
1970	18,825	128	614	113,157	223,735
1971	19,122	130	405	131,064	236,990
1972	29,217	199	408	183,922	254,775
1973	39,564	269	376	243,735	269,616
1974	41,555	283	359	286,351	288,046
1975	28,354	193	360	338,477	294,003
1976	35,545	242	327	286,417	292,303
1977	141,620	963	294	223,328	305,325
1978	136,410	928	292	183,269	306,122
1979	70,725	481	94	162,939	311,512
1980	36,683	249	13	152,741	308,080
1981	29,549	201	18	151,902	312,425
1982	25,304	172	10	143,825	315,399
1983	24,874	169	9	135,609	312,045
1984	23,710	161	8	119,177	312,885
1985	n/a	n/a	466	n/a	n/a

Table C

% of tobacco consumed in different forms, by weight, 1970-85

Year	%cigarettes	%cigars	%finecut tobacco	%pipe tobacco
1970	99.62	.06	.27	.05
1971	99.72	.05	.17	.06
1972	99.69	.08	.16	.07
1973	99.67	.10	.14	.09
1974	99.68	.10	.12	.10
1975	99.70	.07	.12	.12
1976	99.71	.08	.11	.10
1977	99.52	.32	.10	.07
1978	99.54	.30	.10	.06
1979	99.76	.15	.03	.05
1980	99.87	.08	.00	.05
1981	99.88	.06	.01	.05
1982	99.90	.05	.00	.05
1983	99.90	.05	.00	.04
1984	99.91	.05	.00	.04
1985				

2501185977

frequency		age group																				all ages
product	source	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	
56	9 U A											83										
58	5 U A									76												
59	5 U A									83												
60	5 U A									81												
61	5 U A									82												
62	5 U A									79												
63	5 U A									77												
64	5 U A									76												
65	5 U A									83												
65	6 U R													80	76	70	63					
65	6 U A													82	78	71	65					
66	5 U A									84												
66	9 U A									84												
67	5 U A									82												
68	1 UC R									75												
68	1 UC A									79												
69	1 UC R									75												
69	1 UC A									79												
70	1 UC R									73												
70	1 UC A									78												
70	5 U A									80	78	81	78	68	78							
70	9 U A									70												
71	1 UC R									73												
71	1 UC A									77												
72	1 UC R									74												
72	1 UC A									78												
73	1 UC R									75												
73	1 UC A									78												
74	1 UC R									79	76	78	77	68	76							
74	1 UC A									83	80	81	78	70	79							
75	3 UC R									73												
75	5 U A									82	77	76	79	66	76							
76	5 U A									75												
77	5 U A									75												
78	5 U A									75												
79	5 U A									73												
80	5 U A									77	73	69	70	60	70							
80	14 U U									77												
81	5 U A									71												
82	5 U A									70												
82	10 U R	1	3	7																		
82	10 U A	3	4	11																		
83	5 U A									66												
83	8 U U	7																				
84	2 UC U									71	71	64	67	53	66							

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 Frequency: A all smokers (including occasional), R regular or daily smokers  
 All ages: relevant to ages used and as given in original source

2501185978

## D Japan

## Male Percentage of smokers continued

frequency product source year	age group																					all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +	
85 5 U A									72		70		63		63			55				65
85 11 U U					50																	
85 12 U R								60	59													
85 12 U A								64	62													
85 13 U A								58														

2501185979

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

frequency product source year	age group																				all ages		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +	
56 9 U A											15												
58 5 U A											12												
59 5 U A											15												
60 5 U A											13												
61 5 U A											14												
62 5 U A											13												
63 5 U A											12												
64 5 U A											11												
65 5 U A											16												
65 6 U R											9				12		14		16				
65 6 U A											9				13		15		17				
66 5 U A											18												
66 9 U A											20												
67 5 U A											18												
68 1 UC R											12												
68 1 UC A											15												
69 1 UC R											12												
69 1 UC A											15												
70 1 UC R											12												
70 1 UC A											16												
70 5 U A											10		13		16		23		20		16		
70 9 U A											14												
71 1 UC R											11												
71 1 UC A											15												
72 1 UC R											11												
72 1 UC A											16												
73 1 UC R											12												
73 1 UC A											15												
74 1 UC R											9		10		14		17		19		13		
74 1 UC A											13		14		18		21		21		17		
75 3 UC R											12												
75 5 U A											13		14		16		18		17		15		
76 5 U A											15												
77 5 U A											15												
78 5 U A											16												
79 5 U A											15												
80 5 U A											16		14		14		13		15		14		
80 14 U U											16												
81 5 U A											15												
82 5 U A											15												
82 10 U R	0	0	1																				
82 10 U A	1	2	3																				
83 5 U A											14												
83 8 U U	2																						
84 2 UC U											17		15		13		11		13		14		

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

2501185980

## D Japan

## Female Percentage of smokers continued

frequency product source year	age group																						all ages		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +				
85 5 U A									17		14		13		13		12						14		
85 11 U U					10																				
85 12 U R								17		20															
85 12 U A								25		28															
85 13 U A									11																

2501185981

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source



E Japan

Male Cigarettes per smoker per day

product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
67 7 UC									20		20		20		20		18					20
68 7 UC									19		21		21		21		18					20
69 7 UC									20		21		22		21		18					21
70 1 UC									20		22		22		21		18					21
71 1 UC									21		22		22		22		19					21
72 1 UC									21		23		23		23		20					22
73 1 UC									22		23		23		23		20					22
74 1 UC									22		24		23		23		20					23
75 7 UC									24		25		25		24		23		18			24
76 7 UC									24		26		25		24		22		18			24
77 7 UC									23		26		25		24		22		18			24
78 7 UC									23		26		25		24		23		18			24
79 7 UC									23		26		25		24		21		18			24
80 7 UC									24		26		26		24		22		18			25
81 7 UC									24		26		27		24		23		20			25
82 7 UC									24		27		26		25		23		19			25
83 7 UC									23		27		27		25		22		19			25
83 8 UC1	12																					
84 2 UC									22		27		27		25		21					25

E Japan

Female Cigarettes per smoker per day

product source year	age group																				all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	
67 7 UC									13	15		14		14		14					14
68 7 UC									15	14		14		14		13					14
69 7 UC									14	15		14		13		12					14
70 1 UC									14	14		16		15		13					14
71 1 UC									16	15		15		13		14					15
72 1 UC									13	15		16		14		13					14
73 1 UC									13	16		17		16		14					15
74 1 UC									14	15		17		16		14					16
75 7 UC									15	17		19		17		15		14			17
76 7 UC									15	16		17		16		17		14			16
77 7 UC									14	18		17		16		15		13			16
78 7 UC									15	16		17		16		15		13			16
79 7 UC									13	16		18		18		15		14			16
80 7 UC									13	16		17		17		15		14			16
81 7 UC									14	16		16		19		15		15			16
82 7 UC									14	18		17		17		19		15			17
83 7 UC									13	17		18		16		17		14			16
83 8 UC1																					
84 2 UC									15	17		20		18		15					17

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

I indicates mean calculated from %s in intervals

All ages: relevant to ages used and as given in original source

2501185982

F Japan

Male Cigarettes per person per day

product source year	age group																					all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +		
67 7 UC *															16								120%M
68 7 UC															15								108%M
69 7 UC															15								102%M
70 1 UC															15								100%M
71 1 UC															16								97%M
72 1 UC															16								96%M
73 1 UC															17								96%M
74 1 UC									18		18		18		18			14				17	94%M
75 7 UC															17								95%M
76 7 UC *															18								103%M
77 7 UC *															18								99%M
78 7 UC *															18								101%M
79 7 UC *															18								98%M
83 8 UC			0.8																				***
84 2 UC									16		19		17		17			11				16	95%M

F Japan

Female Cigarettes per person per day

product source year	age group																					all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +		
67 7 UC *															2.5								120%M
68 7 UC															1.7								108%M
69 7 UC															1.6								102%M
70 1 UC															1.7								100%M
71 1 UC															1.6								97%M
72 1 UC															1.6								96%M
73 1 UC															1.8								96%M
74 1 UC									1.2		1.4		2.4		2.7			2.6				2.0	94%M
75 7 UC															2.0								95%M
76 7 UC *															2.5								103%M
77 7 UC *															2.4								99%M
78 7 UC *															2.6								101%M
79 7 UC *															2.5								98%M
83 8 UC																							***
84 2 UC									2.5		2.6		2.6		2.0			2.0				2.3	95%M

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

All ages: relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

2501185983

## G Japan Male Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +	
67	7 UC *									14													120%	
68	7 UC									14													108%	
69	7 UC									15													102%	
70	1 UC									15													100%	
71	1 UC									16													97%	
72	1 UC									17													96%	
73	1 UC									17													96%	
74	1 UC									19	19			19			19			15			18	94%
75	7 UC									18													95%	
76	7 UC *									18													103%	
77	7 UC *									18													99%	
78	7 UC *									18													101%	
79	7 UC *									18													98%	
83	8 UC	0.8																				***		
84	2 UC									17	20			18			18			12			17	95%

## G Japan Female Cigarettes per person per day adjusted

product source year	age group																					all ages	% total sales	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +			
67 7 UC *									2.1														120%	
68 7 UC									1.6														108%	
69 7 UC									1.6														102%	
70 1 UC									1.7														100%	
71 1 UC									1.6														97%	
72 1 UC									1.7														96%	
73 1 UC									1.9														96%	
74 1 UC									1.3	1.5		2.6		2.9		2.8							2.1	94%
75 7 UC									2.1														95%	
76 7 UC *									2.4														103%	
77 7 UC *									2.4														99%	
78 7 UC *									2.6														101%	
79 7 UC *									2.6														98%	
83 8 UC																							***	
84 2 UC									2.6	2.7		2.7		2.1		2.1							2.4	95%

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

2501185984

Table H JAPAN

year	source	% SMOKERS						CIGARETTES PER MAN & PER WOMAN								ADJUSTED to TOT CIGS per man per woman	
		product /freq code	man cigs		tot cigs		all prods		product code	ORIGINAL		product adjust factor	ADJUSTED to MAN CIGS				
			m	w	m	w	m	w		per man	per woman		per man	per woman			
40																	
41																	
42																	
43																	
44																	
45																	
46																	
47																	
48																	
49																	
50																	
51																	
52																	
53																	
54																	
55																	
56																	
57																	
58	5	U/A					70	11				M	( 8.4	1.1)			
59	5	U/A					76	13				M	( 8.6	1.2)			
60	5	U/A					75	12				M	( 9.4	1.2)			
61	5	U/A					76	13				M	( 10.1	1.3)			
62	5	U/A					73	12				M	( 10.4	1.3)			
63	5	U/A					71	11				M	( 10.8	1.4)			
64	5	U/A					71	10				M	( 11.3	1.3)			
65	5	U/A					76	14				M	( 11.4	1.7)			
66	5	U/A					77	16				M	( 11.7	2.0)			
67	7								UC *	15.1	2.2	M 120	12.6	1.8			
	5	U/A					76	16				M	( 12.3	2.1)			
68	7								UC	14.0	1.5	M 108	13.0	1.4			
	1	UC/R			70	11						M	( 12.8	1.6)			
	1	UC/A			73	14											
69	7								UC	14.1	1.5	M 102	13.9	1.4			
	1	UC/R			70	11						M	( 13.6	1.7)			
	1	UC/A			74	14											
70	1	UC/R			69	11			UC	14.3	1.6	M 100	14.4	1.6			
	1	UC/A			73	14											
	5	U/A					73	14									
71	1	UC/R			69	10			UC	14.7	1.5	M 97	15.2	1.5			
	1	UC/A			73	14											
72	1	UC/R			70	11			UC	15.4	1.5	M 96	16.0	1.6			
	1	UC/A			74	15											
73	1	UC/R			72	11			UC	16.0	1.7	M 96	16.6	1.7			
	1	UC/A			74	14											
74	1	UC/R			72	12			UC	16.5	1.8	M 94	17.6	1.9			
	1	UC/A			75	16											
75	7								UC	16.7	1.9	M 95	17.5	2.0			
	3	UC/R			70	12						M	( 17.2	2.3)			
	5	U/A					73	14									
76	7								UC *	17.4	2.4	M 103	16.9	2.3			
	5	U/A					72	15				M	( 16.5	2.7)			
77	7								UC *	17.2	2.3	M 99	17.5	2.3			
	5	U/A					72	14				M	( 17.1	2.7)			
78	7								UC *	17.4	2.5	M 101	17.2	2.4			
	5	U/A					71	15				M	( 16.7	2.9)			
79	7								UC *	17.0	2.4	M 98	17.4	2.4			
	5	U/A					70	15				M	( 16.9	2.8)			
80	5	U/A					68	14				M	( 16.5	2.7)			
81	5	U/A					68	15				M	( 16.5	2.9)			
82	5	U/A					67	15				M	( 16.4	2.9)			
83	5	U/A					64	13				M	( 16.3	2.7)			
84	2	UC/U			63	14			UC	15.6	2.2	M 95	16.4	2.3			
85	5	U/A					63	13				M	( 15.8	2.7)			

2501185985

2501185985

Netherlands

Source  
number

- 1      Ref:      van Reek (1984) table 2  
         GFT table no: 2.1  
         PROBLEM Reference is wrong, cannot find Table elsewhere. May  
         have to omit.
- 2      Ref:      TON (1967 survey) cited by: de Haas and de Haas-  
                 Poshuma (19?), van Reek (1983) and Merzdorf (1982)  
                 quoting Ministerie (1975)  
         GFT table no: 2.3  
         Note:      Sample size 565
- 3      Ref:      TON (1970 survey) cited by: Baan (1984) pp.761-2 van  
                 Reek (1984) Merzdorf (1982) quoting Ministerie (1975)  
                 and de Haas (1973)  
         GFT table no: 2.4  
         Note:      Sample size 565
- 4      Ref:      Report for SWOAD by G. Sijbiling (1984) table 5.1 (From  
                 Todd (1986) p.206)  
         GFT table no: 5.1  
         Note: 1. Based on a representative national sample of 1,306  
                 persons interviewed in September 1983  
                 2. Regular cigarette smokers were those who defined  
                 themselves as such  
                 3. Interval estimation based on <3, 3-5, 6-10, 11-15,  
                 16-20, 21-25, >25
- 5      Ref:      Report for SWOAD by G. Sijlbing (1977), table 3.3.2  
                 (From Todd (1986) p.207)  
         GFT table no: 5.2  
         Note:      Based on random route interviews with 1,129 males and  
                 females representative of the Netherlands population in  
                 May-July 1976
- 6      Ref:      Todd (1986)  
         GFT table no: 4.1  
         Note:      Estimated by Todd
- 7      Ref:      van Reek (1984) p.49  
         GFT table no: 4.2  
         Note:      CONSUMPTION OF ALL TYPES OF TOBACCO, IN GRAMS
- 9      Ref:      Merzdorf (1982) quoting Gadourek (1963)  
         See also table 15  
         Note:      Guesstimates for age 15-20, % smokers A, Male:60;  
                 Female:40, % smokers UC, Male:50; Female:40

2501185986

- 10      Ref:      Merzdorf (1982) quoting Readers Digest (1963)  
         Note:      Guesstimates for age 15-20, % smokers A, Male:60;  
                     Female:40, % smokers UC, Male:50; Female:40
- 11      Ref:      Merzdorf (1982) quoting Gadourek and Jensen in  
                     Ministerie (1975)  
         Note:      Guesstimates for age 15-19, % smokers A, Male:60;  
                     Female:40. For age 15, % smokers UC, Male:30; Female:20
- 12      Ref:      Merzdorf (1982) quoting Nederlandse Stichting Voor  
                     Statistiek  
         Note:      The first age group is 10-12
- 13      Ref:      Kerrebijn et al (1977)
- 14      Ref:      de Haas (1974) quoting Wafelbakker (1968)  
         Note: 1.      Exact year not known, presumed males only. "In the  
                     middle sixties a careful study ... among (ex-)pupils  
                     of a technical school".  
                 2.      Also quoting Wiberdink and van Blaaderen-Stok (1957):  
                     "In the fifties 5-10% of 15 year old boys were regular  
                     smokers".
- 15      Ref:      van Reek (1983)  
         Note: 1.      Based on a research project on "risky habits". Sample  
                     size 1297, regional based.  
                 2.      Smokers self defined.  
                 3.      Some features suggest this is the same study as table  
                     9, but results do not agree.  
                 4.      Guesstimates for age 15-20, % smokers, Male:60;  
                     Female:40
- 16      Ref:      NIPO (1966 survey) cited by: Merzdorf (1982) quoting  
                     Ministerie (1975)  
         Note:      Sample size 565
- 17      Ref:      NIPO (1971 survey) cited by: Merzdorf (1982) quoting de  
                     Haas (1980)  
         Note:      Sample size 567
- 18      Ref:      NIPO (1972 survey) cited by: Merzdorf (1982), private  
                     communication  
         Note:      Sample size 1108
- 19      Ref:      NIPO (1973 survey) cited by: Merzdorf (1982), private  
                     communication  
         Note:      Sample size 1108
- 20      Ref:      NIPO (1974 survey) cited by: Merzdorf (1982), private  
                     communication  
         Note:      Sample size 1108

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- 21 Ref: NIPO (1976 survey) cited by: Merzdorf (1982), private communication  
Note: Sample size 1108
- 22 Ref: NIPO (1978 survey) cited by: Merzdorf (1982)  
Note: Sample size 1146
- 23 Ref: NIPO (1978 survey) cited by: Merzdorf (1982), private communication  
Note: Sample size 1108
- 24 Ref: NIPO (1979 survey) cited by: Merzdorf (1982), private communication and de Haas and de Haas-Postuma (?) (Todd 1986 pp.197,199,204)  
GFT table no: 2.2,2.3,3.1  
Note: 1. Based on a national survey of 10,501 men and 10,557 women  
2. There were no female cigar/pipe smokers
- 25 Ref: NIPO (1981 survey) cited by: van Reek (1983)
- 26 Ref: NIPO (1982 survey) cited by: van Reek (1984), (1983)  
Note: 1. Consumption figures per person based on "% manufactured cigarette smokers" and "(unspecified) cigarettes per cigarette smoker"  
2. The two papers by van Reek give the same table of consumption, but relating to either 1981 or 1982
- 27 Ref: NIPO (1983 survey) cited by: Stichting Volksgezondheid en Roken (1984)
- 28 Ref: NOP (1970 survey) cited by: Merzdorf (1982)  
Note: Sample size 1146
- 29 Ref: NOP (1972 survey) cited by: Merzdorf (1982) quoting Ministerie (1975) and van Reek (1984)  
Note: 1. Sample size 565  
2. Consumption figures per person based on "% manufactured cigarette smokers" and "(unspecified) cigarettes per cigarette smoker"  
3. Merzdorf gives figures as age 13+  
4. Cigarette consumption in grams - (Todd) CHECK!
- 30 Ref: NOP (1975 survey) cited by: Merzdorf (1982) and van Reek (1984),(1983)  
Note: Sample size 1146
- 31 Ref: NOP (1979 survey) cited by: van Reek (1984),(1983)
- 32 Ref: "Products and people" van Reek (1983)  
Note: Sample size?

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- 33      Ref:      van der Wal (1985)  
Note: 1. Sample size 24,989  
2. Interval estimation based on 1, 2, 3-4, 5-6, 7-9, 10-14, 15-19, 20-24, 25+
- 34      Ref:      van Reek et al (1985) quoting van Proosdij (1957)  
Note: 1. 17 local surveys in the period 1907-1916, by De Bond van Nederlandse onderwijzers (Association of Dutch teachers)  
2. Age group was 10-12. Also gives 26% at age 6-7  
3. It was assumed that few girls smoked
- 35      Ref:      van Reek et al (1985) quoting van Proosdij et al (1958)  
Note: 1. Sample size 2443  
2. Rotterdam/Amsterdam?
- 37      Ref:      ITL Market Research Dept.  
Note: 1. Confidential  
2. Nationally representative consumer survey, sample size 2000
- 38      Ref:      Stichting Volksgezondheid en Roken  
Note: 1. Based on surveys by NIPO  
2. In 1978-81, smokers defined as ever smoked, from 1982 onwards, smoked in last 4 weeks  
3. First age group is 10-12
- 39      Ref:      NIPO (1980 survey) cited by Stichting Volksgezondheid en Roken
- 40      Ref:      NIPO (1984 survey) cited by Stichting Volksgezondheid en Roken
- 41      Ref:      NIPO (1985 survey) cited by Stichting Volksgezondheid en Roken
- 42      Ref:      Geizerova and Masironi (1987)  
Note:      No original reference given

General note

Data for consumption for 1974 onwards, Ref: Central bureau voor de statistiek. Based on delivery of fiscal bands.

Consumption of HR. Up to 1966 from Merzdorf (1982) quoting Stichting Sigarettenindustrie 1980 based on 80% of fine cut tobacco; thereafter from Stichting Volksgezondheid en Roken based on a % of shag increasing from 80% in 1967 to 97% in 1985. Both sets of estimates assume 1 g per cigarette.

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De Haas (1973), and de Haas and de Haas-Postuma (?) - also give per capita consumption estimates for 5-yearly periods. The first paper say the estimates are based on 1.25g per cigarette, the second on 1g per cigarette. In the overlapping years, these estimates are declining relative to the SVR estimates.

	annual per capita	daily per capita	daily per adult	annual total	As % of SVR estimate
1925/29	608	1.7	2.4	4621	
30/34	710	1.9	2.8	5751	
35/39	595	1.6	2.3	5117	
46/49	364	1.0	1.4	3494	
50/54	530	1.5	2.0	5512	
55/59	455	1.2	1.9	5505	
60/64	512	1.4	2.0	6093	81
65/69	598	1.6	2.2	7535	77
70/72	622	1.7	2.3	8200	75
			2.7	10194	69

Adjustment code A indicates adjustment to total tobacco consumption, all products.

Cigarette consumption in tonnes was estimated from the number of cigarettes consumed by using a conversion factor of 1g per cigarette, based on the value used in RP6. The conversion factors for cigars and cigarillos respectively were 6.8g and 2.3g, but as only combined data were available after 1974, a weighted average of 5.6g was used.

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Netherlands

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Table A NETHERLANDS

Consumption of Cigarettes and of All Tobacco  
Sales based data, including estimates of consumption of handrolled cigarettes

Year	Manufactured Cigarettes		Hand-rolled Cigarettes		Total Cigarettes		Total Tobacco	
	total millions annual	n per adult daily	total millions annual	n per adult daily	total millions annual	n per adult daily	total tonnes annual	grams per adult daily
1923	1958	1.1					20600	11.8
1924	2507	1.4					23000	12.9
1925	1982	1.1					18700	10.2
1926	2369	1.3					21500	11.5
1927	2591	1.4					21300	11.2
1928	2791	1.4					21800	11.3
1929	3180	1.6					22200	11.3
1930	3590	1.8					23000	11.5
1931	3554	1.7					23600	11.5
1932	3655	1.8					24400	11.7
1933	3914	1.8					24700	11.7
1934	3926	1.8					22300	10.4
1935	4009	1.9					22500	10.4
1936	3969	1.8					23400	10.7
1937	4349	2.0					23900	10.7
1938	4766	2.1					24000	10.6
1939	5234	2.3					26500	11.5
1946	3332	1.3					12200	4.9
1947	5362	2.1					18300	7.3
1948	5334	2.1					19400	7.6
1949	6092	2.4					22800	8.8
1950	8048	3.1					24500	9.4
1951	8442	3.2					23400	8.9
1952	9472	3.6					24900	9.3
1953	10134	3.8					25700	9.6
1954	11296	4.2					27300	10.0
1955	11734	4.3					26600	9.7
1956	13149	4.7					28100	10.1
1957	13457	4.8					28600	10.2
1958	13043	4.6					29000	10.2
1959	13452	4.6					30300	10.5
1960	13753	4.7	7560	2.6	21313	7.3	31200	10.6
1961	14635	4.9	7660	2.6	22295	7.5	32800	11.0
1962	15190	5.0	7310	2.4	22500	7.4	32700	10.7
1963	16297	5.2	7520	2.4	23817	7.7	34900	11.2
1964	14073	4.4	7850	2.5	21923	6.9	32800	10.4
1965	17950	5.6	8890	2.8	26840	8.3	37700	11.7
1966	14201	4.3	8320	2.5	22521	6.9	33100	10.1
1967	16647	5.0	9056	2.7	25703	7.7	36100	10.9
1968	18497	5.5	9757	2.9	28254	8.4	38700	11.5
1969	16251	4.8	9719	2.9	25970	7.6	35200	10.3
1970	18675	5.4	9914	2.9	28589	8.3	38500	11.1
1971	19559	5.6	9999	2.8	29558	8.4	38500	11.0
1972	21660	6.1	10953	3.1	32613	9.2	41200	11.6
1973	23423	6.5	11669	3.2	35092	9.7	43900	12.2
1974	23428	6.4	13001	3.5	36429	9.9	44577	12.2
1975	23892	6.4	13085	3.5	36977	9.9	44841	12.0
1976	22523	6.0	13708	3.6	36231	9.6	44042	11.6
1977	26875	7.0	14695	3.8	41570	10.8	48746	12.7
1978	23463	6.0	14239	3.7	37702	9.7	44165	11.4
1979	26784	6.8	14383	3.6	41167	10.4	47367	12.0
1980	22975	5.7	13935	3.5	36910	9.2	42695	10.6
1981	21189	5.2	14733	3.6	35922	8.8	41390	10.2
1982	22127	5.4	15107	3.7	37234	9.0	42075	10.2
1983	23113	5.6	17350	4.2	40463	9.7	45235	10.9
1984	16032	3.8	17785	4.2	33817	8.0	38238	9.1
1985	16289	3.8	17855	4.2	34144	8.0	38487	9.0

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Netherlands

Table B

Total sales of tobacco products, 1974-85

Year	Cigarettes millions = tons	Cigars & cigarillos millions	Cigars & cigarillos tons (assuming 5.6g per ci)	Cut Tobacco tons	Total Weight
1974	23,428	1,197	6,703	14,446	44,577
1975	23,892	1,201	6,726	14,223	44,841
1976	22,523	1,182	6,619	14,900	44,042
1977	26,875	1,084	6,070	15,801	48,746
1978	23,463	1,052	5,891	14,811	44,165
1979	26,875	927	5,191	15,301	47,367
1980	22,975	902	5,051	14,669	42,695
1981	21,289	820	4,592	15,509	41,390
1982	22,127	752	4,211	15,737	42,075
1983	23,113	723	4,049	18,073	45,235
1984	16,032	691	3,870	18,336	38,238
1985	16,289	677	3,791	18,407	38,487

Table C

% of tobacco consumed in different forms, by weight, 1974-85

Year	%cigarettes	%cigars & cigarillos	%cut tobacco
1974	52.56	15.04	32.41
1975	53.28	15.00	31.72
1976	51.14	15.03	33.83
1977	55.13	12.45	32.41
1978	53.13	13.34	33.54
1979	56.74	10.96	32.30
1980	53.81	11.83	34.36
1981	51.44	11.09	37.47
1982	52.59	10.01	37.40
1983	51.10	8.95	39.95
1984	41.93	10.12	47.95
1985	42.32	9.85	47.83

2501185994

## D Netherlands Male Percentage of smokers

frequency product source year	age group																				all ages						
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +					
10 34 U U	76																										
57 35 U U	46																										
58 9 UC U									74																		
58 9 A U									89																		
58 15 A U									91				91		89				89				90				
63 10 UC U									63																		
63 10 A U									82																		
63 32 A U									78				85				81				76				82		
65 14 UC U	25								60																		
66 16 TC U					67																						
66 16 A U					81																						
67 1 MC U					47				63				58				47				26						
67 2 MC U					59								47								52						
67 2 TC U					65						74		70				62				38				64		
67 2 A U					58						79				80				82				83				78
70 3 MC U					53								42								47						
70 3 TC U		41							70		71		69				58				30				59		
70 3 A U					55						77				77				78				74				75
70 11 UC U					61																						
70 11 A U									75																		
70 28 A U		72																									
71 17 TC U					58																						
71 17 A U					69																						
72 18 UC U					59																						
72 18 A U					70																						
72 29 MC U					48								41								44						
72 29 TC U		57																									
72 29 A U					66								72								68						
73 19 UC U					55																						
73 19 A U					66																						
73 37 UC U					38						40		50				35				22				39		
74 20 UC U					53																						
74 20 A U					62																						
75 1 MC U					21						36				40				35				22				
75 30 MC U					36								36								36						
75 30 TC U		53																									
75 30 A U					46						68				69				68				66				66
76 21 UC U					48																						
76 21 A U					57																						
78 22 UC U		49																									
78 22 A U		58																									
78 23 UC U					48																						
78 23 A U					56																						
78 38 U *	21	37																									
79 24 MC U					20						30				31				18				26				

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

2501185995

## D Netherlands Male Percentage of smokers continued

frequency product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
79 24 TC U				28					45	55		52			49			29				45
79 24 A U				29					47	61		58			59			47				52
79 12 UC U	3	15		27		54															24	
79 31 MC U				29							23							26				
79 31 A U				29					56			58			61			57				52
79 38 U *	17	30																				
80 39 A U				30					56			54			56			52				52
81 1 MC U				14					25			27			27			19				
81 25 A U				27					49			50			51			51				47
81 38 U *	16	23																				
81 42 U U				31																		
82 26 MC U				19							22							21				
82 26 A U				18					45			44			45			43				41
82 38 U A	6	22																				
83 4 TC R				17		30		39		42											32	
83 4 TC A				21		38		46		44											37	
83 27 A U				23					46			50			47			41				44
83 33 A A	12	16	22	27	29	26	33															
83 38 U A	5	17																				
84 38 U A	4	19																				
84 40 A U				17					48			48			49			43				44
85 38 U A	7	22																				
85 41 A U				22					46			48			47			42				43

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 Frequency: A all smokers (including occasional), R regular or daily smokers  
 All ages: relevant to ages used and as given in original source

2501185996

## D Netherlands

## Female Percentage of smokers

frequency product source year		age group																				all ages
		12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	
10	34 U U																					
57	35 U U	12																				
58	9 UC U									37												
58	9 A U									38												
58	15 A U									46				32		18				5		29
63	10 UC U									32												
63	10 A U									32												
63	32 A U									45				38		20				3		32
65	14 UC U																					
66	16 UC U					40																
66	16 A U					40																
67	1 MC U					56				56				45		26				13		
67	2 MC U					56								30								41
67	2 TC U					59				56				46		26				12		42
67	2 A U					57				58				46		26				13		42
70	3 MC U					55								30								40
70	3 TC U		44					62		56		48		26				11		42		
70	3 A U					57				57				48		27				13		42
70	11 UC U					47																
70	11 A U									37												
70	28 A U		41																			
71	17 UC U					40																
71	17 A U					40																
72	18 UC U					44																
72	18 A U					44																
72	29 MC U					57								30								40
72	29 TC U		41																			
72	29 A U					57								30								40
73	19 UC U					42																
73	19 A U					42																
73	37 UC U					50				50		47		28				13		39		
74	20 UC U					42																
74	20 A U					42																
75	1 MC U					33				48				40		26				11		
75	30 MC U					48								27								36
75	30 TC U		40																			
75	30 A U					48				58				47		29				12		40
76	21 UC U					37																
76	21 A U					37																
78	22 UC U		36																			
78	22 A U		38																			
78	23 UC U					39																
78	23 A U					39																
78	38 U *	10	42																			
79	24 MC U					39				41				28				12				33

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 Frequency: A all smokers (including occasional), R regular or daily smokers  
 All ages: relevant to ages used and as given in original source

2501185997



frequency product source year	age group																					all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +	
79 24 TC U						39			55	51			40			30				13		38
79 24 A U						39			55	51			40			30				13		38
79 12 UC U	2	17			38		51															26
79 31 MC U						41										27						33
79 31 A U						39				52			40			30				13		38
79 38 U *	8	35																				
80 39 A U						31				44			38			28				11		34
81 1 MC U						23				38			34			25				10		
81 25 A U						30				48			39			28				13		36
81 38 U *	10	27																				
81 42 U U						34																
82 26 MC U						31										23						27
82 26 A U						27				45			36			27				13		33
82 38 U A	4	21																				
83 4 TC R					28		26		48	48												37
83 4 TC A					33		33		50	53												42
83 27 A U						28				48			39			25				12		35
83 33 A A	10	17	27	32	32	31	37															
83 38 U A	3	22																				
84 38 U A	4	23																				
84 40 A U						24				44			36			29				12		33
85 38 U A	3	24																				
85 41 A U						23				44			39			29				13		34

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 Frequency: A all smokers (including occasional), R regular or daily smokers  
 All ages: relevant to ages used and as given in original source

2501185998

## E Netherlands Male Cigarettes per smoker per day

product source year	age group																			all ages				
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74		75 - 79	80 +		
58 15 UC				18																				
72 29 UC				20																				
79 24 TC				11					14	16		17			16			14			15			
82 26 UC				23																				
83 4 TCI				9.1		11		15	18															
83 4 TC				9.1																				
83 33 UC	4.2			7.2		9.3																		

## E Netherlands Female Cigarettes per smoker per day

product source year	age group																				all ages		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +	
58 15 UC				8																			
72 29 UC				12																			
79 24 TC				10					13	13	13			12			9				13		
82 26 UC				19																			
83 4 TCI				8.5		11		13	14														
83 4 TC				8.5																			
83 33 UC	4.7			7.2		7.3																	

U unspecified \* refer to notes  
 Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 All ages: I indicates mean calculated from Xs in intervals relevant to ages used and as given in original source

2501185999

## F Netherlands Male Cigarettes per person per day

product source year	age group																					all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +		
58 7 A																							61%A
72 7 A																							67%A
72 29 UC *																							***
79 24 TC						3.1			6.3	8.8		8.8		7.8		4.1						6.8	56%T
79 6 MC																							--- M
81 7 A																							76%A
82 26 UC *																							***
83 4 TC					1.9	4.2		6.8	8.0														***
83 33 UC		0.7			2.0	2.6																	***

## F Netherlands Female Cigarettes per person per day

product source year	age group																					all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +		
58 7 A																							61%A
72 7 A																							67%A
72 29 UC *																							***
79 24 TC						3.9			7.2	6.6		5.2		3.6		1.2						4.9	56%T
79 6 MC																							--- M
81 7 A																							76%A
82 26 UC *																							***
83 4 TC					2.8	3.8		6.3	7.7														***
83 33 UC		0.9			2.3	2.4																	***

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

2501186000

## G Netherlands Male Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales				
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +			
58 7 A				18																		61%A				
72 7 A				18																		67%A				
72 29 UC *				8.8																		***				
79 24 TC				5.5					11	16			16			14			7.4			12	56%T			
79 6 MC				6.5																		--- M				
81 7 A				13																		76%A				
82 26 UC *				4.8																		***				
83 4 TC				1.9		4.2		6.8		8.0																***
83 33 UC	0.7			2.0		2.6																		***		

## G Netherlands Female Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +
58 7 A				2.3																		61%	
72 7 A				5.7																		67%	
72 29 UC *																						***	
79 24 TC				7.0					13	12	9.3			6.5			2.2				8.8	56%	
79 6 MC				7.1																		---	
81 7 A				7.3																		76%	
82 26 UC *																						***	
83 4 TC				2.8		3.8		6.3		7.7													***
83 33 UC	0.9			2.3		2.4																***	

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

2501186001

Table H NETHERLANDS

year	source	product /freq code	% SMOKERS		tot cigs		all prods		product code	ORIGINAL		product adjust factor	CIGARETTES PER MAN & PER WOMAN		ADJUSTED		ADJUSTED	
			man cigs m	w	m	w	m	w		per man	per woman		to MAN CIGS per man	per woman	to TOT CIGS per man	per woman		
46																		
47																		
48																		
49																		
50																		
51																		
52																		
53																		
54																		
55																		
56																		
57																		
58	7								A	11.2	1.4	A 61	18.3	2.3				
	9	UC/U			71	37												
	9	A/U					85	38										
	15	A/U					86	33										
59																		
60																		
61																		
62																		
63	10	UC/U			61	33						T				( 10.7	4.7)	
	10	A/U					79	33										
	32	A/U					76	32										
64																		
65																		
66	16	UC/U			67	40						T				( 9.4	4.5)	
	16	A/U					81	40										
67	1	MC/U	52	41								M	( 6.2	3.9)				
	2	MC/U	52	41								M	( 6.2	3.9)				
	2	TC/U			64	42						T			( 10.2	5.3)		
	2	A/U					78	42										
68																		
69																		
70	3	MC/U	47	40								M	( 6.4	4.4)				
	3	TC/U			59	41						T			( 10.7	5.9)		
	3	A/U					74	42										
	11	UC/U			60	46						T			( 10.2	6.3)		
	11	A/U					73	37										
	28	A/U					72	41										
71	17	UC/U			58	40						T			( 10.9	6.0)		
	17	A/U					69	40										
72	7								A UC *	11.8	3.8	A 67	17.6	5.7				
	29									8.8								
	18	UC/U			59	44												
	18	A/U					70	44										
	29	MC/U	44	41								M	( 7.0	5.2)				
	29	TC/U			57	41						T			( 11.7	6.7)		
	29	A/U					69	41										
73	19	UC/U			55	42						T			( 12.1	7.4)		
	19	A/U					66	42										
	37	UC/U			39	39						T			( 10.8	8.7)		
74	20	UC/U			53	42						T			( 12.2	7.7)		
	20	A/U					62	42										
75	1	MC/U	33	34								M	( 7.1	5.8)				
	30	MC/U	36	36								M	( 7.2	5.7)				
	30	TC/U			53	40						T			( 12.4	7.5)		
	30	A/U					65	41										
76	21	UC/U			48	37						T			( 11.9	7.3)		
	21	A/U					57	37										
77																		
78	22	UC/U			49	36						T			( 12.3	7.2)		
	22	A/U					58	38										
	23	UC/U			48	39						T			( 11.8	7.7)		
	23	A/U					56	39										
79	24	TC/U			46	37			TC MC	7.1	4.6	T 56				12.7	8.2	
	6									6.5	7.1	M ---	6.5	7.1				
	24	MC/U	26	33								M	( 6.8	6.8)				
	24	A/U					53	37										
	31	MC/U	26	33								M	( 6.7	6.9)				
	31	A/U					54	37										
80	39	A/U					52	33										
81	7								A	9.9	5.5	A 76	13.1	7.3				
	1	MC/U	24	28								M	( 5.4	5.1)				
82	25	A/U					47	34	UC *	4.8								
	26																	

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	26	MC/U	21	26
	26	A/U		
83	27	A/U		
84	40	A/U		
85	41	A/U		

41	32
44	33
44	32
44	33

M	(	5.3	5.4)
---	---	-----	------

2501186003

New Zealand

Source  
number

- 1      Ref:      Department of Statistics (1979) and (1983)  
         GFT table no: 2.1,3.1,2.2,3.2  
         Note: 1. Census results  
              2. Self-defined regular cigarette smokers on 22 March 1976  
              (the day before census day)  
              3. The figures include inhabitants of the Pacific Islands  
              that form part of New Zealand  
              ~ 4. Interval estimation based on 0-4, 5-9, 10-14, 15-19,  
              ...45-49,50+
- 3      Ref:      Hay and Christmas (1976) quoting National Research  
                  Bureau (1975)  
         Note: 1. Surveys carried out for the Cancer Society of New  
              Zealand. 1200M and 1200F randomly selected from 19  
              areas  
              2. Interval estimation based on <10,10-19,20-29,30-39,40+
- 4      Ref:      Mitchell (1983)  
         Note: 1. Surveys in 3 Gisborne city high schools. Sample sizes  
              514 (1968) and 583 (1981)  
              2. Includes "occasional (once a week)" but not "rarely  
              (once or twice a year)"
- 5      Ref:      Mitchell (1983) and Masironi and Roy (1981) quoting  
                  Beaglehole et al (1978)  
         Note:      Sample size 1000 (approx)
- 6      Ref:      Mitchell (1983) quoting Newman et al (1970)  
         Note:      Sample size 329
- 7      Ref:      Mitchell (1983)  
         Note: 1. National survey (no original reference)  
              2. Smoking at least 5 cigarettes per week
- 8      Ref:      Mitchell (1983) quoting Stanhope and Prior (1975)  
         Note:      Rotorua high school, sample size 294. Year unknown
- 9      Ref:      Ree (1986)  
         Note: 1. All pupils at high school in northern King Country  
              (small town/rural). Sample size 145M, 182F, Response  
              83.8%  
              2. Smoked at least one cigarette on most days of the week
- 10     Ref:      Hay (1976)  
         Note:      No original reference. Age group unknown
- 11     Ref:      WHO (1989)  
         Note: 1. Regional survey forming part of WHO MONICA Project

2501186004

Region	Population size	Sample size	Participation rate%	Sample used		Date
				M	F	
Auckland	256700	1950	81	1018	567	01.82-07.82

(whole country 1.0mn)

Figures are for age 35-64.

2. Regular cigarette smokers defined as those who smoked cigarettes every day. All smokers additionally includes those who smoked cigarettes occasionally, or 1 g pipe tobacco per week, or 1 cigar per week.

- 12      Ref:      Geizerova and Masironi (1987)  
          Note:      No original reference given

#### General note

Data from 1974 onwards,      Ref:      Monthly Abstract of Statistics.  
 Cigarettes released for sale plus duty-paid imports.

Estimation of HR cigarette consumption is difficult due to the varying data sources available at different times. Data on cigarette papers are available from 1935-73. However the relationship between cigarette papers and tobacco does not suggest any steady trend, fluctuating between 85% and 140% (and even more in the post war period).

For three years, trade estimates of HR consumption are given in RP6:

	HR cigarettes		As % of	As % of
	Total	per adult daily	cigarette papers	tobacco
1966	1200	1.8	83	91
1970	660	0.9	63	72
1973	548	0.7	64	64

The fact that the two later estimates are low relative to both cigarette papers and tobacco suggest that they are too low.

In the period 1970-79 production figures were available separately for cigarette and pipe tobacco (see Table B). Cigarette tobacco as a % of the total remained steady throughout this period, with mean 78%.

The estimate selected is 78% of tobacco.

2501186005



New Zealand

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2501186006

Table A NEW ZEALAND

Consumption of Cigarettes and of All Tobacco  
 Sales based data, including estimates of consumption of handrolled cigarettes

Year	Manufactured Cigarettes		Hand-rolled Cigarettes		Total Cigarettes		Total Tobacco	
	total millions annual	n per adult daily	total millions annual	n per adult daily	total millions annual	n per adult daily	total tonnes annual	grams per adult daily
1920	511	1.8					2000	6.8
1921	392	1.2					1700	5.2
1922	443	1.3					1700	5.2
1923	495	1.5					1700	5.2
1924	542	1.6					1800	5.5
1925	606	1.7					2000	5.5
1926	645	1.8					2000	5.5
1927	686	1.9					2200	6.0
1928	683	1.9					2100	5.8
1929	719	2.0					2300	6.3
1930	626	1.6					2200	5.5
1931	498	1.2					2100	5.2
1932	406	1.0					2000	5.0
1933	426	1.1					2000	5.0
1934	463	1.2					2100	5.2
1935	584	1.5					2200	5.5
1936	712	1.6					2500	5.7
1937	828	1.9					2700	6.2
1938	916	2.1					2800	6.4
1939	943	2.2					3000	6.8
1940	852	1.9					2900	6.6
1941	900	2.1					3000	6.8
1942	1000	2.3					2900	6.6
1943	1018	2.3					2700	6.2
1944	1134	2.6					2700	6.2
1945	1180	2.7					3000	6.8
1946	1582	3.3					3700	7.8
1947	2044	4.3					4200	8.9
1948	1682	3.5					3900	8.2
1949	1714	3.6					3900	8.2
1950	1984	4.0	1794	3.6	3778	7.6	4600	9.3
1951	2152	4.3	1872	3.7	4024	8.0	4800	9.6
1952	2080	4.1	1872	3.7	3952	7.8	4700	9.2
1953	2091	4.0	1950	3.8	4041	7.8	4900	9.4
1954	2306	4.4	1950	3.7	4256	8.1	5100	9.7
1955	2567	4.8	1872	3.5	4439	8.3	5300	9.9
1956	2629	4.8	1560	2.9	4189	7.7	5000	9.2
1957	2792	5.0	1716	3.1	4508	8.1	5400	9.7
1958	2606	4.6	1638	2.9	4244	7.5	5100	9.0
1959	2509	4.4	1638	2.8	4147	7.2	5000	8.7
1960	3082	5.3	1716	2.9	4798	8.2	5700	9.8
1961	3191	5.4	1716	2.9	4907	8.3	5800	9.8
1962	3383	5.6	1560	2.6	4943	8.1	5900	9.7
1963	3703	5.9	1560	2.5	5263	8.5	6200	10.0
1964	3796	6.0	1404	2.2	5200	8.2	6100	9.6
1965	4102	6.3	1170	1.8	5272	8.1	6200	9.5
1966	4557	6.9	1092	1.7	5649	8.6	6600	10.0
1967	4542	6.8	1014	1.5	5556	8.3	6400	9.5
1968	4649	6.8	936	1.4	5585	8.2	6400	9.4
1969	4818	7.0	858	1.2	5676	8.3	6500	9.4
1970	4952	7.1	799	1.1	5751	8.2	6700	9.6
1971	5118	7.2	753	1.1	5871	8.2	6800	9.5
1972	5405	7.3	728	1.0	6133	8.3	7100	9.6
1973	5525	7.4	668	0.9	6193	8.3	7100	9.5
1974	5771	7.5	612	0.8	6383	8.3	7306	9.5
1975	6230	7.9	585	0.7	6815	8.6	7790	9.9
1976	6231	7.7	548	0.7	6779	8.4	7743	9.6
1977	6345	7.9	521	0.6	6866	8.5	7838	9.8
1978	6267	7.7	476	0.6	6743	8.2	7692	9.4
1979	6131	7.4	449	0.5	6580	8.0	7504	9.1
1980	5991	7.2	427	0.5	6418	7.7	7318	8.8
1981	6168	7.3	432	0.5	6600	7.8	7524	8.9
1982	6112	7.1	420	0.5	6532	7.6	7446	8.7
1983	6089	7.0	426	0.5	6515	7.4	7427	8.5
1984	6236	7.0	417	0.5	6653	7.5	7581	8.5
1985	5654	6.3	385	0.4	6039	6.7	6882	7.6

2501186007

## New Zealand

Table B

Total sales of tobacco products, 1971-85

Year	Cigarettes millions	Cigarettes tons (assuming 1.13g per cig)	Production Cigarette Tobacco tons	Production pipe Tobacco tons	Production Tobacco total tons	Released Tobacco tons	Total Weight
1970			839	246	1,085	1,024	
1971	5,118	5,783	810	234	1,044	965	6,748
1972	5,405	6,108	794	240	1,034	933	7,041
1973	5,525	6,243	725	223	948	856	7,099
1974	5,771	6,521	676	189	865	785	7,306
1975	6,230	7,040	624	187	811	750	7,790
1976	6,231	7,041	632	183	815	702	7,743
1977	6,345	7,170	561	164	725	668	7,838
1978	6,267	7,082	526	141	667	610	7,692
1979	6,131	6,928	507	138	645	576	7,504
1980	5,991	6,770				548	7,318
1981	6,168	6,970				554	7,524
1982	6,112	6,907				539	7,446
1983	6,089	6,881				546	7,427
1984	6,236	7,047				534	7,581
1985	5,654	6,389				493	6,882

Table C

% of tobacco consumed in different forms, by weight, 1970-1985

Year	%cigarettes	%tobacco (released)
1970		
1971	85.70	14.30
1972	86.74	13.25
1973	87.95	12.06
1974	89.26	10.74
1975	90.37	9.63
1976	90.93	9.07
1977	91.48	8.52
1978	92.07	7.93
1979	92.32	7.68
1980	92.51	7.49
1981	92.63	7.36
1982	92.76	7.24
1983	92.64	7.35
1984	92.95	7.04
1985	92.84	7.16

2501186008

## D New Zealand Male Percentage of smokers

frequency product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
61 7 U R					24																	
68 4 U A					32																	
70 6 U A					38																	
74 3 U U																						
74 8 U U		30																				
75 10 UC U					41																	
76 1 UC R					28				41	42	43	42	43	44	43	39	37	33	29	25	19	38
76 5 U U	30		29																			
81 1 UC R					26				39	38	37	38	37	37	37	35	31	28	25	19	34	
81 4 U A					24																	
82 11 UC R												31	27		28							29
82 11 A A												37	33		33							34
85 9 U R		16			14																	
85 12 U U					27																	

## D New Zealand Female Percentage of smokers

frequency product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
61 7 U R					7																	
68 4 U A				25																		
70 6 U A				32																		
74 3 U U				33					37		36		40		19					31		
74 8 U U		30																				
75 10 UC U																						
76 1 UC R				29					38	37	37	34	34	35	33	30	25	19	14	10	5	31
76 5 U U	29		43																			
81 1 UC R				29					40	34	32	33	27	31	30	28	24	19	14	7	29	
81 4 U A				47																		
82 11 UC R											26		26		32							25
82 11 A A											30		27		23							27
85 9 U R		26		18																		
85 12 U U				45																		

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

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## E New Zealand Male Cigarettes per smoker per day

product source year	age group																				all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	
74 3 UCI																					
76 1 UCI				14					17	18	19	20	20	21	20	19	17	16	14	12	18
81 1 UCI				14					17	18	19	19	20	20	20	19	18	16	14	12	18

## E New Zealand Female Cigarettes per smoker per day

product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
74 3 UCI				12																		
76 1 UCI				13					15	15	15	16	16	16	15	14	13	12	11	9.8		15
81 1 UCI				12					15	15	16	16	16	16	15	14	14	12	11	10		15

Product: U unspecified \* refer to notes  
 MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 I indicates mean calculated from %s in intervals  
 All ages: relevant to ages used and as given in original source

2501186010

## F New Zealand Male Cigarettes per person per day

product source year	age group																				all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +	
74 3 UC																						***
76 1 UC					4.0				7.1	7.7	8.3	8.3	8.7	9.0	8.6	7.5	6.4	5.1	4.1	2.6	6.9	68%T
81 1 UC					3.5				6.5	6.7	6.8	7.3	7.4	7.4	7.3	6.7	5.5	4.4	3.6	2.3	6.0	65%T

## F New Zealand Female Cigarettes per person per day

product source year	age group																				all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +	
74 3 UC					3.7																	***
76 1 UC					3.6				5.6	5.6	5.6	5.3	5.4	5.5	4.9	4.2	3.3	2.3	1.5	0.7	4.5	68%T
81 1 UC					3.5				5.8	5.2	5.0	5.2	4.3	4.9	4.6	4.0	3.2	2.4	1.6	0.7	4.2	65%T

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

All ages: relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

2501186011

## G New Zealand Male Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +
74 3 UC																						***	
76 1 UC				5.9					10	11	12	12	13	13	13	11	9.5	7.5	6.1	3.8		10	68%T
81 1 UC				5.4					10	10	10	11	11	11	11	10	8.5	6.8	5.6	3.5		9.3	65%T

## G New Zealand Female Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		
74 3 UC				3.7																		***
76 1 UC				5.3					8.3	8.3	8.3	7.8	8.0	8.1	7.2	6.2	4.9	3.4	2.2	1.0	6.6	68%T
81 1 UC				5.4					8.9	8.0	7.7	8.0	6.6	7.6	7.1	6.2	4.9	3.7	2.5	1.1	6.5	65%T

2501186012

U unspecified \* refer to notes  
 Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 All ages: relevant to ages used and as given in original source  
 % total sales: % of national sales of M manufactured or T total cigarettes implied by survey  
 m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown  
 \*\*\* cannot be calculated --- adjusted by original author

Table H NEW ZEALAND

year	source	% SMOKERS				product code	CIGARETTES PER MAN & PER WOMAN		product adjust factor	ADJUSTED to MAN CIGS		ADJUSTED to TOT CIGS	
		product /freq code	man cigs m w	tot cigs m w	all prods m w		ORIGINAL per man	per woman		per man	per woman	per man	per woman
40													
41													
42													
43													
44													
45													
46													
47													
48													
49													
50													
51													
52													
53													
54													
55													
56													
57													
58													
59													
60													
61													
62													
63													
64													
65													
66													
67													
68													
69													
70													
71													
72													
73													
74	3					UCI		3.7					
	3	U/U			31								
75	10	UC/U		41									
76	1	UC/R		38 31		UCI	7.0	4.4	t 68			10.3	6.5
77													
78													
79													
80													
81	1	UC/R		34 29		UCI	6.0	4.2	t 65			9.3	6.4
82													
83													
84													
85													

2501186013



Norway

Source  
number

- 1 Ref: Mørck et al (1982) p.139  
GFT table no: 2.1,2.2  
Note: Annual market analysis of smoking habits carried out by a public opinion institute, Norges Markeds - Data ("Market Data of Norway"). Sample size about 7000 M, 7000F.
- 2 Ref: Zeiner-Henriksen (1976) pp.617 and 646  
GFT table no: 2.3  
Note: Based on a random survey of the Norwegian population in 1964-65 contacted by post; 80% response rate - 6713 men and 8206 women
- 3 Ref: P933?  
GFT table no: 2.4,2.5,2.6  
Note: 1. Confidential  
2. Presumably smokers of any product  
3. Figures for 1969-75 are the average of two half-yearly surveys; 1976 is for first half of year
- 4 Ref: Central Bureau of Statistics for the National Council on Smoking and Health  
GFT table no: 2.7,3.2,3.3  
Note: 1. Daily smokers. The percentage of occasional smokers remained stable around 10% for both men and women (during 1973-84).  
2. Consumption of "cigarettes per smoker" is presumed "per smoker of any product"  
3. Guesstimates for age 15, % smokers, Male 1973-76:20, 1977-84:15; Female 1973-80:20, 1981-84:15. Cigs per person, Male:1.0; Female:0.8. For age 75+, % smokers, Male:30; Female:5. Cigs per person, Male 1.0, Female 0.5
- 6 Ref: Hermansen and Vellar (1974) table 1  
GFT table no: 5.1  
Note: 1. Daily smokers  
2. Sample size 1971 - 24338; 1972 - 24162
- 7 Ref: Aarø et al (1981), Aarø et al (1983) and National Council on Smoking and Health  
GFT table no: 5.2  
Note: 1. National study involving all schools. Sample size 2. 6968(1975), 5431 (1980), 5127 (1985)  
3. Consumption figures based on daily smokers  
1980 figures taken from graph

2501186014

- 8      Ref:      Aarø et al (1981) quoting Nilsen (1959) and Nilsen (1967)  
Note: 1. Sample size 9000 (1963)  
      2. Definitions are "daily" and "daily+occasional" smokers
- 9      Ref:      Adriaanse (1986) quoting Aluheim et al (personal communication)
- 10     Ref:      Adriaanse (1986) quoting Thürmer and Bjartveit (1986)  
Note:      Age unknown, national sample
- 11     Ref:      Geizerova and Masironi (1987)  
Note:      No original reference given

General note

Data for sales from 1974 onwards, and of cigarette papers, Ref: National Council on Smoking and Health. Note that figures for man. cigs. for 1939-54 from NCSH do not exactly agree with figures from RP6. Cigarette consumption in tonnes was estimated from the number of cigarettes consumed by using a conversion factor of 1g per cigarette. This factor was recommended by NCSH, on the basis of data on the weight of cigarettes 20 years ago. No more recent data is available, although it is possible that the weight of cigarettes has reduced during the last two decades.

HR consumption was estimated as 90% of cigarette paper sales. These estimates appear consistent with statements by Mørck et al (1982) that about 90% of smoking tobacco is accounted for by hand-rolled cigarettes, and that handrolled cigarettes as a percentage of all cigarettes rose from 10% before the Second World War to 60-70% (in 1982).

Estimates of HR consumption are also given in RP6:

	Total	Per adult daily
1966	2908	2.8
1970	3283	3.1
1973	3470	3.2

These estimates are within 3% of those given in Table A.

Note: Surveys 1 and 3 are presumably the same, but as I cannot find the original 3, which is marked confidential and has obscure source reference we will probably keep just 1. Mørck says this data can be purchased.

2501186015

Norway

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Mørck IM, Linde J et al (1982) Tobaksforbrug og rygevaner i Norden. Nordisk medicin, 97, 129-160

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! Nilsen E (1967) Change in smoking behaviour over 10 years. Oslo: Norwegian Cancer Society.

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2501186016

Table A NORWAY

Consumption of Cigarettes and of All Tobacco  
Sales based data, including estimates of consumption of handrolled cigarettes

Year	Manufactured Cigarettes		Hand-rolled Cigarettes		Total Cigarettes		Total Tobacco	
	total millions annual	n per adult daily	total millions annual	n per adult daily	total millions annual	n per adult daily	total tonnes annual	grams per adult daily
1927	512	0.7					3000	4.1
1928	510	0.7					3000	4.1
1929	545	0.7					3200	4.4
1930	615	0.8					3300	4.5
1931	551	0.8					3000	4.1
1932	568	0.7					3000	3.9
1933	583	0.8					3000	3.9
1934	619	0.8					3100	4.0
1935	651	0.8					3200	4.0
1936	731	0.9					3400	4.2
1937	841	1.0					3500	4.4
1938	833	1.0					3600	4.3
1939	909	1.1	85	0.1	994	1.2	3900	4.6
1940	973	1.2					4000	4.8
1941	725	0.9					3000	3.6
1942	608	0.7					2400	2.9
1943	562	0.6					2000	2.3
1944	358	0.4					1500	1.7
1945	517	0.6					1900	2.2
1946	1288	1.5	324	0.4	1612	1.8	4700	5.4
1947	1548	1.8	311	0.4	1859	2.1	5200	5.9
1948	1506	1.7	244	0.3	1750	1.9	5200	5.7
1949	1396	1.5	590	0.6	1986	2.2	5000	5.5
1950	1280	1.4	662	0.7	1942	2.2	4900	5.4
1951	1232	1.4	627	0.7	1859	2.1	4800	5.3
1952	1344	1.5	740	0.8	2084	2.3	5100	5.6
1953	1305	1.4	737	0.8	2042	2.2	5000	5.5
1954	1339	1.5	825	0.9	2164	2.3	5000	5.4
1955	1427	1.5	836	0.9	2263	2.4	5000	5.4
1956	1340	1.4	874	0.9	2214	2.4	4900	5.2
1957	1441	1.5	929	1.0	2370	2.5	5100	5.4
1958	1394	1.5	945	1.0	2339	2.5	5200	5.5
1959	1420	1.5	1019	1.1	2439	2.5	5300	5.5
1960	1491	1.5	1191	1.2	2682	2.8	5400	5.6
1961	1424	1.5	1916	2.0	3340	3.4	5700	5.8
1962	1464	1.5	2267	2.3	3731	3.8	5900	5.9
1963	1403	1.4	2482	2.5	3885	3.9	5700	5.7
1964	1280	1.3	2262	2.2	3542	3.5	5700	5.6
1965	1462	1.4	2644	2.6	4106	4.0	6000	5.9
1966	1506	1.5	2845	2.8	4351	4.2	6200	6.0
1967	1624	1.6	2934	2.8	4558	4.4	6300	6.1
1968	1773	1.7	3075	2.9	4848	4.6	6600	6.3
1969	1917	1.8	3368	3.2	5285	5.0	6800	6.4
1970	1831	1.7	3194	3.0	5025	4.7	6500	6.1
1971	1752	1.6	3251	3.0	5003	4.6	6400	5.9
1972	1862	1.7	3708	3.4	5570	5.1	6800	6.3
1973	1842	1.7	3555	3.2	5397	4.9	6800	6.2
1974	1735	1.6	4159	3.8	5894	5.3	6686	6.0
1975	1755	1.6	4231	3.8	5986	5.4	6759	6.1
1976	1720	1.5	4006	3.6	5726	5.1	6554	5.8
1977	1957	1.7	3978	3.5	5935	5.2	6801	6.0
1978	1851	1.6	3929	3.4	5780	5.1	6450	5.6
1979	2042	1.8	3961	3.4	6003	5.2	6776	5.9
1980	2232	1.9	4189	3.6	6421	5.5	7055	6.1
1981	1995	1.7	4281	3.7	6276	5.4	6763	5.8
1982	1750	1.5	3977	3.4	5727	4.8	6173	5.2
1983	1968	1.7	4197	3.5	6165	5.2	6273	5.3
1984	1950	1.6	3848	3.2	5798	4.8	6393	5.3
1985	2300	1.9	3761	3.1	6061	5.0	6695	5.5

2501186017

## Norway

Table B

Total sales of tobacco products, 1974-85

Year	Cigarettes millions =tons	Cigars tons	Smoking tobacco tons	Chewing tobacco tons	Snuff tons	Total tons	Cigarette Papers millions
1974	1,735	90.21	4,493	85	283	6,686	4,621
1975	1,755	98.47	4,580	63	263	6,759	4,701
1976	1,720	101.36	4,397	69	267	6,554	4,451
1977	1,957	91.00	4,401	69	283	6,801	4,420
1978	1,851	84.21	4,188	59	268	6,450	4,365
1979	2,042	78.94	4,335	60	260	6,776	4,401
1980	2,232	76.24	4,427	57	263	7,055	4,654
1981	1,995	69.71	4,373	55	270	6,763	4,757
1982	1,750	61.06	4,066	48	248	6,173	4,419
1983	1,768	61.14	4,154	43	247	6,273	4,663
1984	1,950	65.28	4,062	42	274	6,393	4,275
1985	2,300	64.31	3,999	40	292	6,695	4,179

Table C

% of tobacco consumed in different forms, by weight, 1974-85

Year	%cigarettes	%cigars	%smoking tobacco	%chewing tobacco	%Snuff
1974	25.95	1.35	67.20	1.27	4.23
1975	25.97	1.46	67.76	.93	3.89
1976	26.24	1.55	67.09	1.05	4.07
1977	28.78	1.34	64.71	1.01	4.16
1978	28.70	1.31	64.93	.91	4.16
1979	30.14	1.16	63.98	.89	3.84
1980	31.64	1.08	62.75	.81	3.73
1981	29.50	1.03	64.66	.81	3.99
1982	28.35	.99	65.87	.78	4.02
1983	28.18	.97	66.22	.69	3.94
1984	30.50	1.02	63.54	.66	4.29
1985	34.35	.96	59.73	.60	4.36

2501186018

frequency product source year	age group																				all ages		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +	
57 8 UR		3	6	12																			
57 8 UA		57	57	60																			
60 1 AR					64					73			66			45				64			
61 1 AR					58					73			67			50				64			
62 1 AR					55					72			66			49				63			
63 1 AR					55					72			65			49				62			
63 8 UR	1	3	8	19																			
63 8 UA	47	47	50	58																			
64 1 AR					49					66			61			43				56			
64 2 UU												67	62		54		42						
65 1 AR					49					66			61			45				57			
66 1 AR					53					68			64			48				59			
67 1 AR					51					65			62				47			58			
68 1 AR					54					66			63			44				58			
69 1 AR					54					65			61			44				58			
69 3 AU						37			64		65			62			45			58			
70 1 AR					54					59			62			44				56			
70 3 AU					34					61		60			61			44			56		
71 1 AR					48					56			59			43				53			
71 3 AU					34					56		57			59			43			53		
71 6 UR							5																
72 1 AR					50					55			58			42				53			
72 3 AU					37					57		56			58			42			53		
72 6 UR							4																
73 1 AR					50					58			57			42				54			
73 3 AU					39					56		58			57			42			54		
73 4 AR				44					49		59		57		53		39				51		
74 1 AR					50					56			54			39				52			
74 3 AU					33					59		57			54			40			52		
74 4 AR					47					58		53		60		54		42				53	
74 9 UU					51																		
75 1 AR					45					55			57			44				52			
75 4 AR						38					50		46		58		55		41				48
75 7 UC R	2	7	16	23																			
75 7 UC A	28	35	46	47																			
76 1 AR					47					56			56			46				51			
76 4 AR					44					51		51		61		45		39				49	
77 1 AR					42					52			51			40				47			
77 4 AR					36					48		49		48		48		35				44	
78 1 AR					44					53			53			42				49			
78 4 AR					39					52		46		47		44		41				45	
79 1 AR					43					52			50			39				47			
79 4 AR						33					50		45		46		45		39				43
80 7 UC R		6	13	22																			
80 7 UC A		23	36	42																			

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 Frequency: A all smokers (including occasional), R regular or daily smokers  
 All ages: relevant to ages used and as given in original source

2501186019

frequency product source year	age group																					all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +	
80 1 A R				40						49			50			42					46	
80 4 A R					35					42		42		44		50		40				42
81 4 A R					34					45		43		47		34		35				40
82 4 A R					33					42		45		38		41		39				40
83 4 A R					29					43		46		44		51		41				42
84 4 A R					32					44		48		42		44		38				42
84 10 U U				46																		
85 7 UC R		3	11	21																		
85 7 UC A		18	28	43																		
85 4 A R					35					45		46		44		46		35				42
85 11 U U				38																		

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

2501186020

frequency product source year	age group																				all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	
57 8 U R		0	0	3																	
57 8 U A		25	36	40																	
60 1 A R					37						34			20			7				27
61 1 A R					40						34			22			6				28
62 1 A R					35						36			20			9				26
63 1 A R					35						38			22			7				27
63 8 U R	0	1	3	7																	
63 8 U A	28	33	38	43																	
64 1 A R					34						35			21			6				26
64 2 U U													36	24	15	7					
65 1 A R					33						35			21			7				26
66 1 A R					38						38			25			10				29
67 1 A R					38						39			23			8				30
68 1 A R					44						39			25			9				33
69 1 A R					47						43			25			11				36
69 3 A U					36					52	44		26			11				36	
70 1 A R					45						44			29			12				37
70 3 A U					33					52	43		29			10				37	
71 1 A R					45						42			26			9				35
71 3 A U					34					51	42		27			9				36	
71 6 U R																					
72 1 A R					48						43			30			10				38
72 3 A U					40					53	43		30			11				38	
72 6 U R																					
73 1 A R					49						43			31			14				38
73 3 A U					39					53	43		31			14				38	
73 4 A R					42					46	42	33	19	13					32		
74 1 A R					49						42			28			12				37
74 3 A U					44					53	43		29			13				37	
74 4 A R					43					47	37	37	20	9					32		
74 9 U U					32																
75 1 A R					55						48			36			15				39
75 4 A R					39					45	39	34	27	7					33		
75 7 UC R	2	7	17	28																	
75 7 UC A	24	36	51	59																	
76 1 A R					48						48			36			15				38
76 4 A R					40						39	38	38	22	12					32	
77 1 A R					52						47			37			18				40
77 4 A R					37						42	33	34	21	11					30	
78 1 A R					55						48			36			18				40
78 4 A R					36						42	35	37	21	11					31	
79 1 A R					49						48			37			19				39
79 4 A R					37					40	39	32	28	13					33		
80 7 UC R		4	11	21																	
80 7 UC A		19	35	46																	

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 Frequency: A all smokers (including occasional), R regular or daily smokers  
 All ages: relevant to ages used and as given in original source

2501186021



frequency product source year	age group																					all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +	
80 1 A R									50			46			39					19		39
80 4 A R									36		41	36	30	21	11							30
81 4 A R									33		39	34	38	25	10							31
82 4 A R									37		48	35	33	28	15							34
83 4 A R									31		43	39	32	26	11							32
84 4 A R									31		46	40	41	26	10							34
84 10 U U													41									
85 7 UC R		3	10	19																		
85 7 UC A		17	27	39																		
85 4 A R									34		42	36	35	28	9							32
85 11 U U				40																		

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

2501186022

## E Norway Male Cigarettes per smoker per day

product source year	age group																					all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +	
73 4 TC							12			16		14		14		12		9.1				13
74 4 TC							11			14		14		15		13		10				13
75 4 TC							11			15		16		13		12		11				13
76 4 TC							12			15		14		12		12		9.7				13
77 4 TC							12			15		17		15		12		11				14
78 4 TC							11			15		15		12		12		11				13
79 4 TC							13			15		16		15		12		10				14
80 4 TC							12			15		13		16		11		11				13
81 4 TC							12			15		18		14		14		12				14
82 4 TC							13			14		15		14		15		11				14
83 4 TC							14			15		17		15		15		11				15
84 4 TC							14			14		16		16		14		15				15
85 4 TC												15										

## E Norway Female Cigarettes per smoker per day

product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
73 4 TC					9.4				11		9.7		10		10		8.6				9.9	
74 4 TC					10				9.2		12		10		9.7		8.2				10	
75 4 TC					9.7				11		11		12		11		6.9				11	
76 4 TC					9.7				11		11		11		10		8.3				10	
77 4 TC					9.7				11		12		10		9.4		11				11	
78 4 TC					10				12		12		11		9.7		11				11	
79 4 TC					11				11		13		10		10		9.1				11	
80 4 TC					9.4				12		12		12		10		11				11	
81 4 TC					12				10		13		12		11		8.5				11	
82 4 TC					10				11		13		10		9.2		9.5				11	
83 4 TC					11				12		12		13		11		8.1				11	
84 4 TC					11				12		13		12		12		12				12	
85 4 TC					12																	

Product: U unspecified \* refer to notes  
 MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 All ages: I indicates mean calculated from %s in intervals  
 relevant to ages used and as given in original source

2501186023

## F Norway Male Cigarettes per person per day

product source year	age group																				all ages	% total sales		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +	
73 4 TC					5.3				8.0				8.2		8.0		6.2		3.5				6.7	94%T
74 4 TC					5.4				8.2				7.6		9.1		6.7		4.3				7.0	90%T
75 4 TC					4.3				7.3				7.5		7.8		6.7		4.6				6.3	85%T
76 4 TC					5.4				7.5				7.2		7.4		5.3		3.8				6.3	87%T
77 4 TC					4.5				7.1				8.1		7.1		5.8		3.8				6.1	83%T
78 4 TC					4.3				8.0				6.9		5.7		5.3		4.6				5.9	85%T
79 4 TC					4.4				7.4				7.0		6.9		5.5		3.9				6.0	84%T
80 4 TC					4.1				6.2				5.4		7.1		5.7		4.4				5.5	74%T
81 4 TC					4.0				6.6				7.5		6.4		4.7		4.3				5.7	78%T
82 4 TC					4.2				5.8				6.9		5.4		6.2		4.3				5.6	87%T
83 4 TC					4.1				6.3				7.8		6.6		7.8		4.5				6.3	86%T
84 4 TC					4.5				6.1				7.9		6.8		6.0		5.5				6.3	95%T
85 4 TC					6.2																			92%T

## F Norway Female Cigarettes per person per day

product source year	age group																				all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		
73 4 TC					3.9				4.8		4.1		3.3		2.0		1.1				3.2	94%
74 4 TC					4.3				4.3		4.4		3.7		1.9		0.7				3.2	90%
75 4 TC					3.8				4.9		4.1		3.9		2.8		0.5				3.5	85%
76 4 TC					3.9				4.1		4.1		4.1		2.3		1.0				3.3	87%
77 4 TC					3.6				4.8		3.9		3.5		2.0		1.2				3.2	83%
78 4 TC					3.7				4.8		4.2		4.1		2.0		1.3				3.4	85%
79 4 TC					3.9				4.3		5.0		3.3		2.8		1.2				3.6	84%
80 4 TC					3.4				4.9		4.4		3.5		2.1		1.2				3.3	81%
81 4 TC					3.9				4.1		4.3		4.4		2.8		0.9				3.5	78%
82 4 TC					3.7				5.4		4.7		3.4		2.6		1.4				3.7	87%
83 4 TC					3.3				5.2		4.5		4.0		2.7		0.9				3.6	86%
84 4 TC					3.3				5.4		5.0		4.8		3.1		1.2				4.0	95%
85 4 TC					3.8																	92%

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

2501186024

G Norway

Male Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +
73 4 TC					5.6				8.5		8.7		8.5		6.6		3.7				7.1	94%T	
74 4 TC					6.0				9.1		8.5		10		7.5		4.8				7.8	90%T	
75 4 TC					5.1				8.6		8.8		9.2		7.9		5.4				7.4	85%T	
76 4 TC					6.2				8.6		8.3		8.5		6.1		4.4				7.3	87%T	
77 4 TC					5.4				8.6		9.8		8.6		7.0		4.6				7.4	83%T	
78 4 TC					5.0				9.4		8.1		6.7		6.2		5.4				6.9	85%T	
79 4 TC					5.3				8.9		8.4		8.3		6.6		4.7				7.2	84%T	
80 4 TC					5.6				8.4		7.3		9.6		7.7		6.0				7.5	74%T	
81 4 TC					5.1				8.4		9.6		8.2		6.0		5.5				7.3	78%T	
82 4 TC					4.8				6.7		7.9		6.2		7.1		4.9				6.4	87%T	
83 4 TC					4.7				7.3		9.0		7.6		9.0		5.2				7.3	86%T	
84 4 TC					4.7				6.4		8.3		7.1		6.3		5.8				6.6	95%T	
85 4 TC					6.8																		92%T

G Norway

Female Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +	
73 4 TC					4.1				5.1		4.3		3.5		2.1		1.2				3.4	94%		
74 4 TC					4.8				4.8		4.9		4.1		2.1		0.8				3.6	90%		
75 4 TC					4.5				5.8		4.8		4.6		3.3		0.6				4.1	85%		
76 4 TC					4.5				4.7		4.7		4.7		2.6		1.2				3.8	87%		
77 4 TC					4.3				5.8		4.7		4.2		2.4		1.4				3.9	83%		
78 4 TC					4.3				5.6		4.9		4.8		2.3		1.5				4.0	85%		
79 4 TC					4.7				5.1		6.0		4.0		3.4		1.4				4.3	84%		
80 4 TC					4.6				6.7		6.0		4.8		2.9		1.6				4.5	78%		
81 4 TC					5.0				5.2		5.5		5.6		3.6		1.2				4.5	78%		
82 4 TC					4.3				6.2		5.4		3.9		3.0		1.6				4.3	87%		
83 4 TC					3.8				6.0		5.2		4.6		3.1		1.0				4.2	86%		
84 4 TC					3.5				5.7		5.3		5.0		3.3		1.3				4.2	95%		
85 4 TC									4.2															92%

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

2501186025

Table H NORWAY

year	source	% SMOKERS				product code	ORIGINAL		product adjust factor	ADJUSTED to MAN CIGS		ADJUSTED to TOT CIGS	
		product /freq code	man cigs m w	tot cigs m w	all prods m w		per man	per woman		per man	per woman	per man	per woman
40													
41													
42													
43													
44													
45													
46													
47													
48													
49													
50													
51													
52													
53													
54													
55													
56													
57													
58													
59													
60	1	A/R			63 25								
61	1	A/R			63 26								
62	1	A/R			61 25								
63	1	A/R			61 26								
64	1	A/R			55 24								
65	1	A/R			55 24								
66	1	A/R			58 28								
67	1	A/R			57 28								
68	1	A/R			58 30								
69	1	A/R			57 32								
	3	A/U			58 32								
70	1	A/R			56 33								
	3	A/U			55 33								
71	1	A/R			53 32								
	3	A/U			53 32								
72	1	A/R			52 34								
	3	A/U			52 34								
73	4					TC	6.3	3.0	T 94			6.6	3.2
	1	A/R			53 35								
	3	A/U			53 35								
	4	A/R			49 31								
74	4					TC	6.6	3.1	t 90			7.3	3.4
	1	A/R			51 34								
	3	A/U			51 34								
	4	A/R			51 31								
	9	U/U			51 32								
75	4					TC	6.0	3.2	t 85			7.1	3.7
	1	A/R			51 37								
	4	A/R			47 31								
76	4					TC	5.8	3.1	t 87			6.7	3.5
	1	A/R			52 35								
	4	A/R			47 30								
77	4					TC	5.7	3.0	t 83			6.9	3.6
	1	A/R			47 37								
	4	A/R			43 28								
78	4					TC	5.5	3.1	t 85			6.5	3.7
	1	A/R			49 38								
	4	A/R			44 29								
79	4					TC	5.6	3.2	t 84			6.7	3.8
	1	A/R			47 37								
	4	A/R			42 30								
80	4					TC	5.1	3.1	t 74			7.0	4.1
	1	A/R			46 37								
	4	A/R			41 28								
81	4					TC	5.3	3.2	t 78			6.7	4.0
	4	A/R			39 28								
82	4					TC	5.1	3.3	t 87			5.9	3.8
	4	A/R			39 31								
83	4					TC	5.8	3.2	t 86			6.7	3.7
	4	A/R			41 29								
84	4					TC	5.7	3.5	t 95			6.0	3.7
	4	A/R			40 30								
	10	U/U			46 41								
85	4					TC	5.8	3.4	t 92			6.3	3.8
	4	A/R			41 29								

2501186026

Portugal

Source  
number

- 1      Ref:      Tabaqueira, Lisbon  
         GFT table no: 2
- 2      Ref:      Adriaanse et al (1986) quoting Medeiros et al (1982)  
         Note:      Local study, age group and other details unknown
- 3      Ref:      Geizerova and Masironi (1987)  
         Note:      No original reference given

General Note

Data for man. cigs. for 1973-78, Ref:      Maxwell International Estimates.  
Man. cigs and rolling tobacco 1979-85, Ref:      Tabaqueira, Lisbon.

HR? - Awaiting further information

HR estimate, 1966 from RP6. This gave handrolled consumption as 1.0 million lbs (450 tons) equivalent to 697 million cigarettes, out of total tobacco consumption of 1.2 million lbs (540 tons). This gives 0.65g per hand rolled cigarette, and 85% of tobacco used for H.R. We have used this as the basis of our estimates up to 1972 (not yet entered). The figures from Tabaqueira show rolling tobacco as 90%-93% of all tobacco in the period 1979-85.

2501186027

Portugal

Adriaanse H, van Reek J and van Zutphen WM (1986) Rookgewoonten van artsen wereldwijd. Ned Tijdschr Geneskd, 130, no. 49, 2224-9

Geizerova H and Masironi R (1987) Cigarette Smoking in Children and Adolescents : World Review. In: Aoki M, Hisamichi S and Tominaga S (Eds) Smoking and Health 1987. Proceedings of 6th World Conference on Smoking and Health, Tokyo.

!Mederiros JAS, Marques PH et al (1982) Inquerito aos habitos tabaquicos dos medicos do Hospital da Universidade de Coimbra. Coimbra Medica, 3, 255-60

2501186028

Table A PORTUGAL

Consumption of Cigarettes and of All Tobacco  
 Sales based data, including estimates of consumption of handrolled cigarettes

Year	Manufactured Cigarettes		Hand-rolled Cigarettes		Total Cigarettes		Total Tobacco	
	total millions annual	n per adult daily	total millions annual	n per adult daily	total millions annual	n per adult daily	total tonnes annual	grams per adult daily
1940	1428	0.7					3300	1.7
1941	1716	0.9					3700	1.9
1942	2170	1.1					4300	2.2
1943	2251	1.1					4300	2.2
1944	2305	1.1					4500	2.2
1945	2411	1.2					4700	2.3
1946	2626	1.3					4900	2.4
1947	3161	1.5					5000	2.4
1948	3343	1.6					5400	2.6
1949	3573	1.7					5300	2.5
1950	3633	1.7					5100	2.4
1951	3802	1.7					5300	2.4
1952	4183	1.9					5700	2.6
1953	4215	1.9					5600	2.5
1954	4317	1.9					5500	2.4
1955	4674	2.0					5800	2.5
1956	5100	2.2					6000	2.6
1957	5088	2.2					5900	2.5
1958	5510	2.4					6300	2.7
1959	5778	2.5					6500	2.8
1960	6287	2.7					7000	3.0
1961	5570	2.4					6300	2.7
1962	5827	2.5					6500	2.8
1963	6757	2.9					7500	3.2
1964	7029	3.0					7800	3.3
1965	7482	3.2					8000	3.4
1966	7989	3.4	697	0.3	8686	3.7	8600	3.7
1967	8237	3.5					8800	3.7
1968	8820	3.7					9300	3.9
1969	8689	3.7					9200	3.9
1970	8924	4.0					9300	4.1
1971	9082	4.0					9500	4.2
1972	9406	4.2					9800	4.4
1973	10203	4.5						
1974	11052	4.7						
1975	12043	4.8						
1976	11834	4.6						
1977	12564	4.9						
1978	12537	4.9						
1979	11986	4.6	184	0.1	12170	4.7		
1980	11988	4.5	155	0.1	12143	4.5		
1981	12606	4.7	144	0.1	12750	4.8		
1982	12990	4.8	129	0.0	13119	4.8		
1983	13635	4.9	131	0.0	13766	5.0		
1984	13507	4.8	139	0.0	13646	4.8		
1985	13594	4.8	137	0.0	13731	4.8		

2501186029



Portugal

Table B

Total sales of tobacco products, 1974-85

Year	Cigarettes with filter millions	Cigarettes without filter millions	Cigarettes total millions =tons	Cigarettes (Maxwell)	Rolling tobacco tons	Pipe tobacco tons	Total Weight kgs
1973				10,203			
1974				11,052			
1975				12,043			
1976				11,834			
1977				12,564			
1978				12,537			
1979	9,385	2,601	11,986	12,311	184	14	12,184
1980	9,690	2,298	11,988	12,338	155	14	12,157
1981	10,530	2,076	12,606		144	12	12,762
1982	11,004	1,986	12,990		129	13	13,132
1983	11,644	1,991	13,635		131	15	13,781
1984	11,537	1,970	13,507		139	15	13,661
1985	11,786	1,808	13,594		137	15	13,746

Table C

% of tobacco consumed in different forms, by weight, 1974-85

Year	%cigarettes	% rolling tobacco	%pipe tobacco
1975			
1976			
1977			
1978			
1979	98.37	1.51	.11
1980	98.61	1.27	.12
1981	98.78	1.13	.09
1982	98.92	.98	.10
1983	98.94	.95	.11
1984	98.87	1.02	.11
1985	98.89	1.00	.11

2501186030

## D Portugal Male Percentage of smokers

frequency product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
80 2 U U				41																		
83 1 UC U		35																				
83 3 U U									62													

## D Portugal Female Percentage of smokers

frequency product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
80 2 U U				9																		
83 1 UC U		10																				
83 3 U U									30													

2501186031

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

Table H PORTUGAL

year	source	% SMOKERS				CIGARETTES PER MAN & PER WOMAN										
		product /freq code	man cigs		tot cigs		all prods		product code	ORIGINAL		product adjust factor	ADJUSTED to MAN CIGS		ADJUSTED to TOT CIGS	
			m	w	m	w	m	w		per man	per woman		per man	per woman	per man	per woman
40																
41																
42																
43																
44																
45																
46																
47																
48																
49																
50																
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73																
74																
75																
76																
77																
78																
79																
80	2	U/U					41	9				T			(	8.2 1.4)
81																
82																
83	1	UC/U			35	10						T			(	8.3 2.0)
84																
85																

2501186032

Spain

Source  
number

- 1 Ref: World Health Organization, Regional Office for Europe, 1975  
GFT table no: 2  
Note: Presumed to be 1970, age 16+
  - 2 Ref: Adriaanse et al (1986) quoting Salvador - Llivina (1983)  
Note : Catalonia. No details of method.
  - 3 Ref: Vioque and Bolumar (1987)  
Note: 1. Sample-based survey by National Institute for Statistics.  
2. Lowest age group is 6-13.  
3. Interval estimation based on 0-20 (assumed 1-19), 20+. Alternative allocation of smokers of 20 per day could have a large effect. High level of non-response in 65+ age group.
  - 4 Ref: Tomas et al (1979)  
Note: 1. Study of 663 male patients observed for coronary risk factors over 5 years.  
2. Smokers of 20 or more cigarettes per day  
3. From 1968-73 the authors note a reduction in the % heavy smokers aged 50-54 but not younger ages.
  - 5 Ref: Adriaanse et al (1986) quoting WHO (1985)  
Note: Age group unknown
  - 6 Ref: WHO (1989)  
Note: 1. Regional survey forming part of WHO MONICA Project
- | Region    | Population size | Sample size | Participation rate% | Sample used<br>M F | Date        |
|-----------|-----------------|-------------|---------------------|--------------------|-------------|
| Catalonia | 367300          | 2629        | 76                  | 1276 1293          | 04.86-07.88 |
- (whole country 13.0mn)
2. Overall % relates only to age 35-64.
  3. Regular cigarette smokers defined as those who smoked cigarettes every day. All smokers additionally includes those who smoked cigarettes occasionally, or lg. pipe tobacco per week, or 1 cigar per week.
  4. This survey has been included despite the fact that it was conducted after the period considered in this report, since very little other age-specific data is available for Spain.

2501186033

General note

Data for sales from 1974 onwards, Ref: Series Historicas de Consumo de Tabaco Elaborado 1957-88, Tabacalera, Madrid. Figures given as packets of cigarettes (both manufactured and hand rolled) have been converted assuming 20 cigarettes = 1 packet. Smoking tobacco has been converted assuming 25g = 1 packet (ie. 1.25g per HR cigarette)

Manufactured cigarette consumption in tonnes was estimated from the number of cigarettes by using a conversion factor of 1g per cigarette. The conversion factor for cigars was 6.8g. These are based on the values used in RP6.

Population data for 1984 and 1985 estimated from WHO annual.

2501186034

Spain

Adriaanse H, van Reek J and Van Zutphen WM (1986) Rookgewoonten van artsen wereldwijd. Ned Tijdschr Geneeskde, 130, no. 49, 2224-9

! Salvador-Llivina T (1983) Smoking prevention in Catalunya. European Workshop on Smoking and Health, WHO/Euro, Suzdal, USSR

Tomas L, Bernades E et al (1979) Modificacion espontanea de los factores de riesgo coronario de una poblacion laboral en un intervalo de 5 anos. Revista Espanola de Cardiologia, 32, 593-600

Vioque J and Bolumar F (1987) Trends in mortality from lung cancer in Spain, 1951-80. Journal of Epidemiology and Community Health, 41, 74-78

World Health Organisation, Regional Office for Europe. Survey on smoking and health in the European Region, 1974-75; Preliminary data as at 1 May 1975. Copenhagen, 1975

World Health Organisation Expert Committee on Smoking Control. Tobacco smoking in the World. WHO, 1978

WHO Meeting Southern European Action on Smoking. Smoking survey among health professionals in Catalunya 1985. WHO/Euro and Dept. Sanitat. i Seg. Soc., 1985

World Health Organisation (1989) World Health Statistics Annual. (Section B:Special topic, The WHO MONICA Project)

2501186035

Table A SPAIN

Consumption of Cigarettes and of All Tobacco  
 Sales based data, including estimates of consumption of handrolled cigarettes

Year	Manufactured Cigarettes		Hand-rolled Cigarettes		Total Cigarettes		Total Tobacco	
	total millions annual	n per adult daily	total millions annual	n per adult daily	total millions annual	n per adult daily	total tonnes annual	grams per adult daily
1927	5416	1.0	19200	3.4	24616	4.4	26800	4.7
1928	6592	1.2					27600	4.8
1929	7367	1.3					27300	4.7
1930	7822	1.3					27600	4.7
1931	7611	1.3					27800	4.6
1932	8198	1.4					27800	4.6
1933	7775	1.3					25700	4.2
1934	7117	1.2					26500	4.3
1935	6718	1.1					27400	4.4
1940	6756	1.0					19300	2.9
1941	7198	1.1					15100	2.3
1942	7440	1.1					13900	2.1
1943	9160	1.4					16100	2.4
1944	8813	1.3					18900	2.8
1945	9192	1.3					23400	3.4
1946	10261	1.5					28900	4.2
1947	10927	1.6					26700	3.8
1948	9783	1.4					24900	3.6
1949	10010	1.4					29200	4.0
1950	8825	1.2					28800	3.9
1951	9682	1.3					26500	3.5
1952	11538	1.5					32700	4.3
1953	12707	1.7					25800	3.4
1954	13839	1.8					29400	3.8
1955	15554	2.0					30700	4.0
1956	15109	1.9					29100	3.7
1957	18222	2.3	10213	1.3	28435	3.6	31300	4.0
1958	21872	2.8	10467	1.3	32339	4.1	35200	4.5
1959	22839	2.9	8969	1.1	31808	4.0	34300	4.3
1960	24892	3.1	8072	1.0	32964	4.1	35300	4.4
1961	27220	3.4	7620	0.9	34840	4.3	37100	4.6
1962	30294	3.7	6075	0.7	36369	4.4	38700	4.7
1963	33915	4.1	4521	0.5	38436	4.7	41000	5.0
1964	36570	4.4	3621	0.4	40191	4.8	43100	5.2
1965	40087	4.8	3501	0.4	43588	5.2	46900	5.6
1966	42324	5.0	3055	0.4	45379	5.3	49000	5.8
1967	44999	5.3	2521	0.3	47520	5.6	51300	6.0
1968	47174	5.4	2170	0.2	49344	5.7	53200	6.1
1969	47287	5.4	2006	0.2	49293	5.6	53000	6.0
1970	50084	5.6	1647	0.2	51731	5.8	55800	6.3
1971	50843	5.7	1495	0.2	52338	5.8	56700	6.3
1972	53234	5.9	1242	0.1	54476	6.0	59400	6.6
1973	56623	6.2	1155	0.1	57778	6.3	63300	6.9
1974	60378	6.6	1118	0.1	61496	6.7	68175	7.4
1975	58321	6.3	951	0.1	59272	6.4	66973	7.2
1976	63205	6.6	862	0.1	64067	6.7	71214	7.4
1977	66869	6.9	795	0.1	67664	7.0	74637	7.7
1978	63490	6.4	567	0.1	64057	6.5	70024	7.1
1979	70508	7.1	534	0.1	71042	7.1	77238	7.7
1980	70437	6.9	564	0.1	71001	7.0	77288	7.6
1981	64256	6.3	502	0.0	64758	6.3	71111	6.9
1982	68739	6.6	437	0.0	69176	6.7	75330	7.2
1983	71190	6.7	390	0.0	71580	6.8	77290	7.3
1984	74205	7.0	348	0.0	74553	7.0	80328	7.6
1985	79137	7.4	323	0.0	79460	7.4	85142	7.9

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## Spain

Table B

Total sales of tobacco products, 1957-85

Year	Manufacture cigarettes millions = tons	Handrolled cigarettes millions (assuming 20 per packet)	Smoking tobacco (assuming 23/25g per packet) tons	Cigars thousands	Cigars tons (assuming 6.8g per cigar)	Total Weight
1957	18,222	10,213	11,745	175,350	1,192	31,159
1958	21,028	10,467	12,037	194,599	1,323	34,388
1959	22,843	8,969	10,314	193,588	1,316	34,473
1960	25,417	8,072	9,282	180,821	1,230	35,929
1961	27,664	7,620	8,763	199,381	1,356	37,783
1962	30,587	6,075	6,987	210,308	1,430	39,004
1963	34,235	4,521	5,199	276,480	1,880	41,314
1964	37,062	3,621	4,165	337,407	2,294	43,521
1965	40,550	3,501	4,026	397,964	2,706	47,282
1966	42,672	3,055	3,514	459,667	3,126	49,312
1967	45,013	2,521	2,899	493,259	3,354	51,266
1968	47,108	2,170	2,496	515,476	3,505	53,109
1969	47,422	2,006	2,307	499,530	3,397	53,126
1970	50,641	1,647	1,894	560,818	3,814	56,349
1971	51,638	1,495	1,719	601,227	4,088	57,445
1972	53,012	1,242	1,553	668,615	4,547	59,112
1973	56,602	1,155	1,444	763,808	5,194	63,240
1974	60,378	1,118	1,397	941,161	6,400	68,175
1975	58,321	951	1,189	1,097,542	7,463	66,973
1976	63,205	862	1,078	1,019,192	6,931	71,214
1977	66,869	795	993	996,354	6,775	74,637
1978	63,490	567	709	856,583	5,825	70,024
1979	70,508	534	667	891,551	6,063	77,238
1980	70,437	564	705	903,825	6,146	77,288
1981	64,256	502	628	915,674	6,227	71,111
1982	68,739	437	546	888,912	6,045	75,330
1983	71,190	390	488	825,274	5,612	77,290
1984	74,205	348	435	836,399	5,688	80,328
1985	79,137	323	404	823,729	5,601	85,142

Table C

% of tobacco consumed in different forms, by weight, 1957-85

Year	%cigarettes	% smoking tobacco	%cigars
1957	58.48	37.69	3.83
1958	61.15	35.00	3.85
1959	66.26	29.92	3.82
1960	70.74	25.83	3.42
1961	73.22	23.19	3.59
1962	78.42	17.91	3.67
1963	82.87	12.58	4.55
1964	85.16	9.57	5.27
1965	85.76	8.51	5.72
1966	86.53	7.13	6.34
1967	87.80	5.65	6.54
1968	88.70	4.70	6.60
1969	89.26	4.34	6.39
1970	89.87	3.36	6.77
1971	89.89	2.99	7.12
1972	89.68	2.63	7.69
1973	89.50	2.28	8.21
1974	88.56	2.05	9.39
1975	87.08	1.78	11.14
1976	88.75	1.51	9.73
1977	89.59	1.33	9.08
1978	90.67	1.01	8.32
1979	91.29	.86	7.85
1980	91.14	.91	7.95
1981	90.36	.88	8.76
1982	91.25	.72	8.02
1983	92.11	.63	7.26
1984	92.38	.54	7.08
1985	92.95	.47	6.58

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## D Spain

## Male Percentage of smokers

frequency product source year	age group																				all ages		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +	
68 4 UC R											38												
70 1 U U					66																		
73 4 UC R													31										
78 3 UC U	14		23		62				72		66				65			46			54		
82 2 U U	58																						
85 5 U U					59																		
87 6 UC R										63		53		42		43							47
87 6 A A										66		63		54		52							47

## D Spain

## Female Percentage of smokers

frequency product source year	age group																				all ages		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +	
68 4 UC R																							
70 1 U U					10																		
73 4 UC R																							
78 3 UC U	3		4		48				48		16				5			3			17		
82 2 U U	20																						
85 5 U U				20																			
87 6 UC R										37		12		4		2							7
87 6 A A										41		14		5		4							8

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

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E Spain

Male Cigarettes per smoker per day

product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
	78 3 UCI*		12			13			18	20					19			18				

E Spain

Female Cigarettes per smoker per day

product source year	age group																			all ages		
	12	13	14	15	16	17	18	19	20 -	25 -	30 -	35 -	40 -	45 -	50 -	55 -	60 -	65 -	70 -		75 -	80 +
	24	29	34	39	44	49	54	59	64	69	74	79										
78	3	UCI*			9.7			11		13			14			13			12			

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U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
I indicates mean calculated from %s in intervals

All ages: relevant to ages used and as given in original source

## F Spain Male Cigarettes per person per day

product source year	age group																					all ages	% total sales
	12	13	14	15	16	17	18	19	20 -	25 -	30 -	35 -	40 -	45 -	50 -	55 -	60 -	65 -	70 -	75 -	80 +		
78 3 UC *				2.7			7.9		13		13				13				8.3				105%T

## F Spain Female Cigarettes per person per day

product source year	age group																					all ages	% total sales
	12	13	14	15	16	17	18	19	20 -	25 -	30 -	35 -	40 -	45 -	50 -	55 -	60 -	65 -	70 -	75 -	80 +		
78 3 UC *			0.4			5.3			6.3		2.1				0.6				0.4				105%T

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

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## G Spain Male Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +
78 3 UC *				2.6				7.6		12			13			12				7.9			105%

## G Spain Female Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +
78 3 UC *				0.4			5.1		6.0		2.0				0.6				0.4				105%

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

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Table H SPAIN

year	source	% SMOKERS				product code	CIGARETTES PER MAN & PER WOMAN		product adjust factor	ADJUSTED to MAN CIGS		ADJUSTED to TOT CIGS	
		product /freq code	man cigs m w	tot cigs m w	all prods m w		ORIGINAL per man	per woman		per man	per woman	per man	per woman
40													
41													
42													
43													
44													
45													
46													
47													
48													
49													
50													
51													
52													
53													
54													
55													
56													
57													
58													
59													
60													
61													
62													
63													
64													
65													
66													
67													
68													
69													
70	1	U/U			65 10				T			( 10.7	1.3)
71													
72													
73													
74													
75													
76													
77													
78	3	UC/U		54 15		UC1*	11.7	2.2	T 105			11.2	2.1
79													
80													
81													
82	2	U/U			58 20				T			( 10.6	2.9)
83													
84													
85	5	U/U			59 20				T			( 11.9	3.2)

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Sweden

Source  
number

- 1 Ref: Svenska Tobaks AB  
GFT table no: 2.1  
Note: 1. 1969 figures represent 1969/70, and so on  
2. Guesstimates for age 68+, % smokers, Male:15; Female:5
- 2 Ref: World Health Organization, Regional Office for Europe, 1975  
GFT table no: 2.2  
Note: Guesstimates for age 68+, % smokers, Male:15; Female:5
- 3 Ref: Diagram 7.1, p.98 of un-named document supplied by SCB Statistics Sweden. 1977 figures also in Haglund (1987)  
GFT table no: 2.3  
Note: 1. Daily smokers  
2. Apparently same series as table 8  
3. Guesstimates for age 15, % smokers, Male 1977:20, 1983:10; Female 1977:25, 1983:20. For age 75+, Male 1977:20, 1983:15; Female 1977,83:5
- 4 Ref: Mørck et al (1982) p.142 based on data from Svenska Tobaks  
GFT table no: 2.4  
Note: Daily smokers
- 5 Ref: Dr. B. Floderus-Myrhed (private communications). Data from Swedish part of Swedish-Finnish twin cohort study  
GFT table no: 3  
Note: Data for 1967 based on all like-sexed twin pairs born in Sweden 1886-1925 provided that both in a pair were alive in 1967 and that both answered a questionnaire in that year. Corresponding criteria applied to the younger cohort born 1926-58 and where both were alive in 1972
- 6 Ref: Central Bureau of Statistics (1965)  
GFT table no: 4  
Note: 1. Mail survey of approx 56,000 people  
2. Interval estimation based on 1-3,4-7,8-15,16-25,26+  
3. Guesstimates for age 15-17, % smokers A, Male:25; Female:20. % smokers UC, Male:20; Female:20. Cigs per person, Male:1.0; Female:0.8. For age 70+, % smokers A, Male:30; Female:2. % smokers UC, Male:15; Female:2. Cigs per person, Male:1.0, Female:0.5
- 7 Ref: Ramstrom (1981) and WHO (1978)  
GFT table no: 5

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- 8 Ref: Rosén et al (1987)  
 Note: 1. Figures taken from diagram  
 2. Surveys of Living Conditions, conducted by Statistics Sweden. Randomly selected sample, 11,000 (1977), 12,700 (1980/81)  
 3. Guesstimates for age 15, % smokers, Male:10; Female:20. For age 75+, Male:20; Female:5
- 9 Ref: Ramstrom (1986)  
 Note: Sample size 2000. Only selected results from abstract available.
- 10 Ref: Noppa and Bengtsson (1980)  
 Note: Population sample (1462 women) aged 38, 46, 50, 54 and 60 in Göteborg. 90.1% response rate
- 11 Ref: Holmqvist (1985)  
 Note: 2 secondary modern schools in Lund. Sample size 203M, 201F
- 12 Ref: Adriaanse et al (1976) quoting Ramstrom (1985)  
 Note: Age group unknown
- 13 Ref: Aarø et al (1981) quoting Lukács (1978)
- 14 Ref: ITL Market Research Department  
 Note: 1. Confidential  
 2. Nationally representative consumer survey, sample size 2000
- 15 Ref: Cox and Marks (1983)  
 Note: 1. No original source reference  
 2. Representative sample  
 3. Guesstimates for age 15-17, % smokers A and UC, Male:15; Female:20. For age 70+, % smokers A, Male:20; Female:5. % smokers UC, Male:15; Female:5
- 16-17 Ref: WHO (1989)  
 Note: 1. 2 regional surveys forming part of WHO MONICA Project

Region	Population size	Sample size	Participation rate%	Sample used M F	Date
16 Göteborg	153400	1461	75	685 726	02.85-11.86
17 Northern Sweden	189700	1501	84	935 923	01.86-04.86

(whole country 3.lmn)

Sample used includes age 25-34, all other figures are for age 35-64 only.

2. Overall % relates only to age 35-64.  
 3. Regular cigarette smokers defined as those who smoked cigarettes every day. All smokers additionally includes those who smoked cigarettes occasionally, or

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- lg. pipe tobacco per week, or 1 cigar per week.
4. It seemed sensible to include the survey in Northern Sweden despite its being carried out after the period considered in this report, because of the overlapping periods and differing results from the two regions.

- 18      Ref:      Haglund (1987)  
         Note:      No original reference. Age group unknown
- 19      Ref:      Geizerova and Masironi (1987)  
         Note:      No original reference

General note

Data for domestic sales of tobacco products, for 1974 onwards, Ref: Svenska Tobaks AB.

There is little evidence on which to base estimates of HR cigarette consumption before 1980. Mørck et al (1982) stated that "HR cigarettes account for only 4-5% of the overall cigarette market in 1980". Assuming 1g per HR cigarette, this represented approximately 45% of smoking tobacco. This agrees with figures from Svenska Tabaks AB for "Roll-your-own tobacco", available from 1981 onwards, but these figures, and figures for cigarette papers and filters from 1980, show that consumption of HR cigarettes rose during the 1980s, both absolutely and relative to other smoking products. In 1985, for instance, they represented 10% of total cigarettes, and 74% of smoking tobacco. However these figures may give a distorted picture since they include border trade to Norway where HR cigarettes are a major product. We have used 45% of smoking tobacco as our estimate of HR cigarette consumption to 1980, although there is no indication of the validity of this estimate. From 1981 onwards, we have used the figures for roll-your-own tobacco, assuming 1 gram per cigarette.

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Table A SWEDEN

Consumption of Cigarettes and of All Tobacco  
Sales based data, including estimates of consumption of handrolled cigarettes

Year	Manufactured Cigarettes		Hand-rolled Cigarettes		Total Cigarettes		Total Tobacco	
	total millions annual	n per adult daily	total millions annual	n per adult daily	total millions annual	n per adult daily	total tonnes annual	grams per adult daily
1920	1559	1.0					9300	6.1
1921	1345	0.9					8600	5.6
1922	1123	0.7					8200	5.3
1923	1058	0.7					7900	5.0
1924	1089	0.7					7800	5.0
1925	1085	0.7					7900	4.9
1926	1204	0.7					7900	4.8
1927	1284	0.8					7700	4.7
1928	1446	0.9					7700	4.7
1929	1640	1.0					7700	4.6
1930	1864	1.1					7800	4.6
1931	1999	1.2					7900	4.6
1932	2012	1.2					8000	4.7
1933	1894	1.1					7800	4.5
1934	1878	1.1					7800	4.5
1935	1843	1.0					7900	4.4
1936	1806	1.0					8000	4.5
1937	1822	1.0					8100	4.5
1938	1889	1.0					8300	4.5
1939	1976	1.1					8300	4.5
1940	2126	1.1					8300	4.5
1941	2191	1.2					8400	4.5
1942	2235	1.2					7200	3.9
1943	2237	1.2					7200	3.9
1944	2307	1.2					8500	4.5
1945	2468	1.3					8900	4.7
1946	3141	1.7					9600	5.1
1947	3670	1.9					9900	5.1
1948	3809	2.0					10000	5.2
1949	3984	2.0					9900	5.0
1950	4352	2.2	675	0.3	5027	2.6	10000	5.1
1951	4416	2.2	630	0.3	5046	2.6	9600	4.9
1952	5121	2.6	675	0.3	5796	2.9	10400	5.2
1953	5248	2.6	675	0.3	5923	3.0	10400	5.2
1954	5289	2.6	675	0.3	5964	3.0	10400	5.2
1955	5548	2.7	675	0.3	6223	3.1	10500	5.2
1956	5714	2.8	630	0.3	6344	3.1	10500	5.2
1957	5903	2.9	585	0.3	6488	3.2	10600	5.2
1958	6066	2.9	675	0.3	6741	3.2	10700	5.2
1959	6240	3.0	675	0.3	6915	3.3	11100	5.3
1960	6740	3.2	720	0.3	7460	3.5	11900	5.6
1961	7216	3.4	675	0.3	7891	3.7	12200	5.7
1962	7498	3.5	675	0.3	8173	3.8	12300	5.7
1963	7860	3.6	675	0.3	8535	3.9	12500	5.7
1964	7810	3.5	765	0.3	8575	3.9	12800	5.8
1965	8300	3.7	765	0.3	9065	4.1	13000	5.8
1966	8700	3.9	765	0.3	9465	4.2	13400	5.9
1967	8927	3.9	765	0.3	9692	4.3	13200	5.8
1968	9679	4.2	765	0.3	10444	4.6	13300	5.8
1969	10147	4.4	720	0.3	10867	4.7	13300	5.8
1970	10269	4.4	721	0.3	10990	4.7	13100	5.6
1971	9957	4.3	689	0.3	10646	4.5	12500	5.3
1972	11243	4.8	644	0.3	11887	5.1	13300	5.7
1973	9265	3.9	649	0.3	9914	4.2	11700	5.0
1974	11070	4.7	609	0.3	11679	4.9	13092	5.5
1975	11673	4.9	579	0.2	12252	5.2	13287	5.6
1976	11988	5.0	557	0.2	12545	5.3	13711	5.8
1977	11357	4.7	522	0.2	11879	5.0	13057	5.5
1978	11727	4.9	504	0.2	12231	5.1	13220	5.5
1979	11973	4.9	489	0.2	12462	5.1	13420	5.5
1980	11910	4.9	508	0.2	12418	5.1	13395	5.5
1981	11482	4.7	524	0.2	12006	4.9	13056	5.3
1982	12062	4.9	734	0.3	12796	5.2	13820	5.6
1983	11560	4.7	968	0.4	12528	5.1	13757	5.6
1984	11502	4.6	1246	0.5	12748	5.1	14170	5.7
1985	11152	4.5	1245	0.5	12397	5.0	13996	5.6

2501186048

Sweden

Table B

Total sales of all tobacco products, 1974-1985

Year	Manufactured Cigarettes		Cigars	Cigarillos	Cigars+ Cigarillos		Smoking Tobacco	Roll-your -own tobacco (included in smoking tobacco)	Other smoking tobacco
	thousands	tons	thousands	thousands	millions	tons	tons	tons	tons
1974	11,070,000	8,437	8,311	243,210	252	474	1,354		
1975	11,673,000	8,579	7,790	241,895	250	465	1,286		
1976	11,988,000	8,827	7,161	234,073	241	443	1,238		
1977	11,357,000	8,142	6,213	200,683	201	380	1,159		
1978	11,727,000	8,319	5,308	173,533	179	325	1,119		
1979	11,973,000	8,464	5,124	161,776	167	301	1,087		
1980	11,910,000	8,303	4,961	149,949	155	280	1,129		
1981	11,482,000	7,911	4,465	137,773	142	243	1,124	524	600
1982	12,062,000	8,326	4,260	133,476	138	229	1,313	734	579
1983	11,560,000	7,990	3,802	121,476	125	203	1,511	968	543
1984	11,502,000	7,891	3,554	115,669	119	178	1,747	1,246	501
1985	11,152,000	7,561	3,207	107,806	111	175	1,680	1,245	435

Year	cigarette paper & filters millions	Chewing Tobacco	Moist Snuff	Total Weight
		tons	tons	tons
1974		15	2,812	13,092
1975		14	2,943	13,287
1976		14	3,189	13,711
1977		15	3,361	13,057
1978		15	3,442	13,220
1979		18	3,550	13,420
1980		18	3,665	13,395
1981		24	3,754	13,056
1982		23	3,929	13,820
1983		24	4,029	13,757
1984	1,135	21	4,333	14,170
1985	1,209	20	4,560	13,996

Table C

% of tobacco consumed in different forms, by weight, 1974-85

Year	%cigarettes	%cigars	%smoking tobacco	%chewing tobacco	% snuff
1974	64.44	3.62	10.34	.11	21.48
1975	64.57	3.50	9.68	.11	22.15
1976	64.38	3.23	9.03	.10	23.26
1977	62.36	2.91	8.88	.11	25.74
1978	62.93	2.46	8.46	.11	26.04
1979	63.07	2.24	8.10	.13	26.45
1980	61.99	2.09	8.43	.13	27.36
1981	60.59	1.86	8.61	.18	28.75
1982	60.25	1.66	9.50	.17	28.43
1983	58.08	1.48	10.98	.17	29.29
1984	55.69	1.26	12.33	.15	30.58
1985	54.02	1.25	12.00	.14	32.58

2501186049

frequency product source year	age group																				all ages					
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +				
46 18 U U					50																					
63 6 UC R							44			42			36			26								35		
63 6 A R							51			54			53			46								49		
67 5 UC U													35			28			23			14				
68 10 U U																										
69 1 UC U					43																					
69 12 U U					54																					
70 1 UC U					42																					
71 1 UC U					40																					
71 2 UC U							44			48			43			39			37			33		42		
71 4 A R					55																					
71 7 U U		14					41																			
72 1 UC U					40																					
72 4 A R					55																					
72 5 UC U				28						41			34		30											
72 7 U U		10					35																			
72 12 U U					49																					
73 1 UC U					40																					
73 4 A R					56																					
73 7 U U		10					31																			
73 14 UC U					43						39			30		44		24				38				
74 1 UC U					39																					
74 4 A R					55																					
74 7 U U		10					31																			
75 1 UC U					41						41			33							39					
75 4 A R					54																					
76 1 UC U					36						40			29							35					
76 4 A R					52																					
76 13 U U					27																					
77 1 UC U					33						41			29							34					
77 3 U R					35						48			43		42		39		32						
77 4 A R					50																					
77 7 U U		9					25																			
77 12 U U					39																					
77 13 U U					25																					
78 1 UC U					34						37			27							33					
78 4 A R					47																					
79 1 UC U					28						37			29							32					
79 4 A R					47																					
80 1 UC U					20						34			28							29					
80 7 U U		5					21																			
80 8 U R					28						40			38		35		33				36				
80 15 UC R							26																			
80 15 A R							31																			
81 1 UC U					28						34			25							29					

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 Frequency: A all smokers (including occasional), R regular or daily smokers  
 All ages: relevant to ages used and as given in original source

2501186050

D Sweden

Male Percentage of smokers continued

frequency product source year	age group																					all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +	
81 11 U R			18																			
81 11 U A	0		22																			
82 1 UC U				29						33				27								30
82 12 U U				30																		
83 1 UC U				24						36				24								29
83 3 U R					22					37		37		37		32		25				
84 19 U U					16																	
85 9 UC R					14							36										
85 16 UC R										26		35		34		27						32
85 16 A A										42		44		40		36						41
86 17 UC R										21		24		24		23						24
86 17 A A										37		37		34		31						34

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

2501186051

frequency product source year	age group																				all ages		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +	
46 18 U U					9																		
63 6 UC R							36		32		25		11								23		
63 6 A R							36		32		25		11								23		
67 5 UC U													28		17		8		2				
68 10 U U											47		44	37	38	20							
69 1 UC U					33																		
69 12 U U					32																		
70 1 UC U					35																		
71 1 UC U					34																		
71 2 UC U					43				49		38		33		23		12				35		
71 4 A R					34																		
71 7 U U		16				47																	
72 1 UC U					34																		
72 4 A R					34																		
72 5 UC U				35						45		34		28									
72 7 U U		12				47																	
72 12 U U					33																		
73 1 UC U					34																		
73 4 A R					35																		
73 7 U U		10				45																	
73 14 UC U					46						38		32		28		16				35		
74 1 UC U					36																		
74 4 A R					36																		
74 7 U U		12				45																	
75 1 UC U					46						38		21								35		
75 4 A R					36																		
76 1 UC U					49						38		23								37		
76 4 A R					38																		
76 13 U U					40																		
77 1 UC U					43						36		21								33		
77 3 U R					46						45		33		27		22		11				
77 4 A R					34																		
77 7 U U		11				40																	
77 12 U U					21																		
77 13 U U					40																		
78 1 UC U					41						38		23								34		
78 4 A R					35																		
79 1 UC U					39						38		23								33		
79 4 A R					34																		
80 1 UC U					37						36		20								31		
80 7 U U		6				33																	
80 8 U R					37						38		29		20		13				30		
80 15 UC R							26																
80 15 A R							26																
81 1 UC U					37						36		25								32		

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

2501186052

frequency product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
81 11 U R			7																			
81 11 U A	0		14																			
82 1 UC U				35						33				23							31	
82 12 U U				30																		
83 1 UC U				35						35				19							30	
83 3 U R					29					38		35		28		20		9				
84 19 U U					22																	
85 9 UC R										41						13						
85 16 UC R										41		37		38		27						35
85 16 A A										44		42		42		30						39
86 17 UC R										29		35		24		18						27
86 17 A A										35		40		28		20						31

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

2501186053



E Sweden Male Cigarettes per smoker per day

product source year	age group																			all ages		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74		75 - 79	80 +
63 6 UCI							8.4			13		12			10							12
67 5 UC													11		9.8		7.9		6.6			
72 5 UC					11				13		14		14									

E Sweden Female Cigarettes per smoker per day

product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
63 6 UCI							8.3			8.9		9.1			7.9							8.7
67 5 UC													9.3		8.8		8.3		5.8			
72 5 UC					9.3				12		11		12									

Product: U unspecified \* refer to notes  
 MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 I indicates mean calculated from %s in intervals  
 All ages: relevant to ages used and as given in original source

2501186054

## F Sweden Male Cigarettes per person per day

product source year	age group																				all ages	% total sales		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +	
63 6 UC							3.7			5.3		4.4			2.6								4.0	65%T
67 5 UC													4.0		2.8		1.8		0.9				***	
72 5 UC				2.9					5.3		4.7		4.2											***

## F Sweden Female Cigarettes per person per day

product source year	age group																					all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +		
63 6 UC							3.0			2.8		2.3			0.8							2.0	65%
67 5 UC													2.6		1.5		6.6		1.2				***
72 5 UC				3.3					5.2		3.8		3.2										***

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

2501186055

## G Sweden Male Cigarettes per person per day adjusted

product source year	age group																					all ages	% total sales
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +		
63 6 UC								5.7		8.1		6.7			4.0							6.1	65%T
67 5 UC													4.0		2.8		1.8		0.9				***
72 5 UC					2.9				5.3		4.7	4.2											***

## G Sweden Female Cigarettes per person per day adjusted

product source year	age group																					all ages	% total sales	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +			
63 6 UC							4.6		4.3		3.5		1.2									3.1	65%	
67 5 UC													2.6		1.5		6.6		1.2				***	
72 5 UC				3.3					5.2		3.8		3.2											***

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

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Table H SWEDEN

year	source	% SMOKERS				CIGARETTES PER MAN & PER WOMAN						ADJUSTED to TOT CIGS per man per woman		
		product /freq code	man cigs m w	tot cigs m w	all prods m w	product code	ORIGINAL		product adjust factor	ADJUSTED to MAN CIGS per man per woman				
40														
41														
42														
43														
44														
45														
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														
56														
57														
58														
59														
60														
61														
62														
63	6	UC/R		32 20		UC1	3.4	1.7	t 65			5.2	2.6	
64	6	A/R			47 20									
65														
66														
67														
68														
69	1	UC/U		40 29					t			( 6.0	3.5)	
	12	U/U			54 32									
70	1	UC/U		39 31					t			( 5.8	3.7)	
71	1	UC/U		37 30					t			( 5.6	3.5)	
	2	UC/U		38 30					t			( 5.6	3.5)	
	4	A/R			55 34									
72	1	UC/U		37 29					t			( 6.2	3.9)	
	4	A/R			55 34									
	12	U/U			49 33									
73	1	UC/U		37 29					t			( 5.2	3.3)	
	4	A/R			56 35									
	14	UC/U		36 32					t			( 5.0	3.5)	
74	1	UC/U		36 31					t			( 5.9	4.0)	
	4	A/R			55 36									
75	1	UC/U		35 30					t			( 6.2	4.2)	
	4	A/R			54 36									
76	1	UC/U		33 31					t			( 6.0	4.6)	
	4	A/R			52 38									
77	1	UC/U		32 28					t			( 5.8	4.1)	
	3	U/R			39 29									
	4	A/R			50 34									
	12	U/U			39 21									
78	1	UC/U		31 29					t			( 5.8	4.4)	
	4	A/R			47 35									
79	1	UC/U		30 28					t			( 5.8	4.5)	
	4	A/R			47 34									
80	1	UC/U		26 26					t			( 5.6	4.6)	
	8	U/R			35 27									
	15	UC/R		24 23					m	( 5.6	4.2)			
	15	A/R			29 23									
81	1	UC/U		28 28					t			( 5.4	4.4)	
82	1	UC/U		28 26					t			( 6.0	4.4)	
	12	U/U			30 30									
83	1	UC/U		27 25					t			( 5.8	4.4)	
	3	U/R			31 25									
84														
85														

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Switzerland

Source  
number

- 1      Ref:      Abelin and Müller (1983) tables 1a and 1b  
         GFT table no: 2.1,2.2,3.1,3.2  
         Note: 1. French and German speaking regions  
              2. The % of smokers UC\* and the consumption per smoker are  
              for smokers of cigarettes only. The calculation of per  
              person figures for males assumes that consumption by  
              "cigarette and other" smokers is the same as by  
              "cigarette only" smokers  
              3. Interval estimation based on 1-9,10-19,20+  
              4. Guesstimates for age 75+, % smokers A, Male 1975:30,  
              1981:25. % smokers UC, Male 1975:25, 1981:15;Female:10.  
              % smokers UC\*, Male 1975:20, 1981:15; Female:10. Cigs  
              per person, Male:1975:4.0, 1980:3.0; Female:0.5
- 3      Ref:      Binder et al (1979)  
         Note: 1. Representative samples in Canton of Zurich.  
              2. Sample size 1971: 6033M, 1376F  
                                  1978: 3579M, 2296F  
              3. Interval estimation based on 1-2,3-7,8-14,15-21,>21
- 4      Ref:      Nater et al (1985)  
         Note: 1. 2 cities, controls in community intervention program,  
              sampled in 77/78, followed-up in 80/81. Sample size  
              1358.  
              2. Consumption figures are for all types, in grams.  
              3. Guesstimates for age 15, % smokers Male and Female:15.  
              Cigs per person, Male:2.0; Female:1.0. For age 70+, %  
              smokers, Male:40; Female:10. Cigs per person, Male:5.0;  
              Female:1.0
- 5      Ref:      Battegay et al (1988)  
         Note: 1. Military recruits in 72/73, followed-up in 79 and 85.  
              These figures are based on sample size 843, evaluated  
              on all 3 enquiries, out of 4082 original recruits.  
              2. Age groups unknown - presumably originally age 20.  
              3. Consumption figures are for all types, in grams.  
              4. Interval estimation based on 1-8,9-24,>24 (assumed  
              means 4,18,35)
- 6      Ref:      Biener (1984)  
         Note: 1. Study of 1033M, 1260F working in 44 factories.  
              2. Year unknown.  
              3. As in Source 1, consumption figures based on "cigarette  
              only" smokers, so figures "per adult" assume that  
              consumption by "cigarette and other" smokers is the  
              same as by "cigarette only" smokers.  
              4. Interval estimation based on 1-9,10-19,20-29,30+

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5. Guesstimates for age 15-19, % smokers A and UC, Male and Female:35. For age 65+, % smokers A, Male:30. % smokers UC, Male:20; Female:10
  6. Assumed no female smokers of other products.
  - 7 Ref: La Vecchia et al (1987)  
Note: 1. Swiss National Health Survey, 1981-83. Randomly selected sample (4255), response rate 72.9%.  
2. Guesstimates for age 15-19, % smokers, Male:30; Female:25
  - 8 Ref: ITL Market Research Dept  
Note: 1. Confidential  
2. Nationally representative consumer survey, sample size 2000
  - 9-10 Ref: WHO (1989)  
Note: 1. 2 regional surveys forming part of WHO MONICA Project
- | Region          | Population size | Sample size | Participation rate% | Sample used<br>M F | Date        |
|-----------------|-----------------|-------------|---------------------|--------------------|-------------|
| 9 Vaud/Fribourg | 280200          | 1966        | 62                  | 851 778            | 10.84-06.85 |
| 10 Ticino       | 110900          | 1948        | 78                  | 781 769            | 11.85-05.86 |
- (whole country 2.4mn)  
Sample used in Vaud/Fribourg includes age 25-34, all other figures are for age 35-64 only.
2. Overall % relates only to age 35-64.
  3. Regular cigarette smokers defined as those who smoked cigarettes every day. All smokers additionally includes those who smoked cigarettes occasionally, or lg. pipe tobacco per week, or 1 cigar per week.
- 11 Ref: Geizerova and Masironi (1987)  
Note: No original reference given

#### General note

Figures for 1936 relate to 1934-37; 1939 to 1938-40

Consumption data for 1974 onwards, Ref: Schweizerische Fachstelle für Alkoholprobleme, Lausanne.

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Estimates of cigarette consumption in Switzerland based on different sources vary considerably, for instance for the years 1971-75:

	RP6	SFA	Maxwell International Estimates	
			Series A	Series B
71	17900	19640	30900	
72	18700	18039	32000	
73	16500	17834	31076	
74		17170	28000	17600
75		16247		15500

No information on smoking of HR cigarettes is available. (However, I guess it is negligible e.g. Source 1, 28% of smokers smoke pipe/cigars with or without cigarettes, but tobacco and cigars combined account for 21% of sales.)

Trümpy (1983) summarised the development of smoking in Switzerland as follows: "According to Swiss documents, a resistance initially arose against smoking, which was imported from America and propagated mainly among soldiers, but it eventually became increasingly tolerated. Outdoor smoking was disapproved of up to the mid 19th century, and women were not allowed to indulge in cigarette smoking before 1918; since 1945, it has increased in both sexes. Medical warning began extensively only after 1970".

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Switzerland

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Binder J, Sieber M and Angst J (1979) Entwicklung des Suchtmittelkonsums bei 19/20 jährigen Jugendlichen. Ein Vergleich im Kanton Zurich 1971, 1974 und 1978. Schweiz. Med. Wschr., 109, 1298-1305

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Table A SWITZERLAND

Consumption of Cigarettes and of All Tobacco  
 Sales based data, including estimates of consumption of handrolled cigarettes

Year	Manufactured Cigarettes		Hand-rolled Cigarettes		Total Cigarettes		Total Tobacco	
	total millions annual	n per adult daily	total millions annual	n per adult daily	total millions annual	n per adult daily	total tonnes annual	grams per adult daily
1936	1728	1.5					6800	5.8
1939	2262	1.9					7300	6.1
1941	2746	2.3					8500	7.1
1942	2715	2.3					8300	6.9
1943	3167	2.6					8600	6.9
1944	3444	2.8					8300	6.7
1945	3964	3.2					8400	6.8
1946	4416	3.5					10200	8.0
1947	5009	3.9					10500	8.2
1948	4989	3.9					10000	7.8
1949	5143	3.9					9400	7.2
1950	5405	4.1					9800	7.4
1951	5672	4.3					10000	7.6
1952	6222	4.7					10700	8.0
1953	6191	4.6					10500	7.8
1954	6236	4.6					10400	7.6
1955	6625	4.8					10800	7.8
1956	7081	5.1					11100	8.0
1957	7488	5.3					10900	7.7
1958	8248	5.8					11800	8.2
1959	8557	5.9					12100	8.3
1960	9751	6.6					12900	8.7
1961	10866	7.2					14100	9.4
1962	11691	7.6					15200	9.8
1963	11986	7.6					16600	10.5
1964	11550	7.2					16400	10.2
1965	13728	8.5					18400	11.3
1966	11051	6.7					15600	9.5
1967	12715	7.7					17300	10.4
1968	13603	8.1					18200	10.8
1969	15427	9.0					20000	11.7
1970	16300	9.5					20800	12.1
1971	17900	10.3					22200	12.8
1972	18700	10.7					23400	13.3
1973	16500	9.3					21000	11.8
1974	17170	9.6						
1975	16247	9.0						
1976	15365	8.5						
1977	16652	9.2						
1978	15570	8.6						
1979	15494	8.4						
1980	16338	8.8						
1981	15279	8.1						
1982	16392	8.6						
1983	16426	8.6						
1984	16529	8.6						
1985	16438	8.5						

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## Switzerland

Table 8

Total sales of tobacco products, 1971-85

Year	Number of Cigarettes millions	Number of Cigars productn 000s	Number of cigars import 000s	Number of cigars export 000s	number of cigars sales 000s	Pipe productn tonnes	pipe import ?units	pipe export ?units	pipe sales
1971	19,640	762,274	26,500			1,017	2,058		
1972	18,039	770,780	24,300			1,007	2,616		
1973	17,834	750,292	26,600			904	3,627		
1974	17,170	665,791	30,800			983	2,160		
1975	16,247	529,199	41,400			880	2,250		
1976	15,365	493,170	45,600			821	2,063		
1977	16,652	483,341	56,500			807	2,328		
1978	15,570	441,494	57,400			739	2,210		
1979	15,494	388,919	78,500			678	2,377		
1980	16,338	407,084	111,000			707	2,543		
1981	15,279	394,442	120,400			647	2,690		
1982	16,392	373,080	115,000			621	2,654		
1983	16,426	300,349	79,700			573	2,718		
1984	16,529	293,974	79,000	16,000	356,974	531	2,740	574	2,697
1985	16,438	294,015	77,300	15,000	356,315	497	2,726	388	2,835

This table not completed due to lack of data on cigar/pipe exports.

Also problem with apparent discrepancy of pipe production/exports - wrong units?

2501186063

## D Switzerland Male Percentage of smokers

frequency product source year	age group																					all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +		
71 3 UC R								55															
72 5 A R								55															
73 8 UC U				41					52			45		41		26						41	
75 1 UC *				27					41			37			32							35	
75 1 UC U				34					49			44			36							42	
75 1 A U				36					55			57			51							52	
77 4 A R					43				51				47										
78 3 UC R								43															
79 5 A R	{51}																						
80 4 A R				47					45				46										
81 1 UC *				36					45			33			18							33	
81 1 UC U				40					53			38			20							38	
81 1 A U				40					58			49			31							46	
81 11 U U				30																			
82 7 U U								39															
83 6 UC U								39	40	41	42	46	48	46	44	35					42		
83 6 A U								43	47	46	48	50	52	50	51	41					48		
85 5 A R	{45}																						
85 9 UC R								38			34		34		28						32		
85 9 A A								49			47		50		45						47		
85 10 UC R												43		37		33						38	
85 10 A A												53		46		40						47	

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

2501186064

## D Switzerland Female Percentage of smokers

frequency product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
71 3 UC R								41														
72 5 A R																						
73 8 UC U				44					40			29		20		13						26
75 1 UC *				46					46			26			14						29	
75 1 UC U				46					46			26			14						29	
75 1 A U				46					46			26			14						29	
77 4 A R					41					29					15							
78 3 UC R								44														
79 5 A R																						
80 4 A R					41					28					17							
81 1 UC *				42					46			28			11						28	
81 1 UC U				42					46			28			11						28	
81 1 A U				42					46			28			11						28	
81 11 U U				43																		
82 7 U U								22														
83 6 UC U								56	53	52	46	37	33	28	23	20					40	
83 6 A U								56	53	52	46	37	33	28	23	20					40	
85 5 A R																						
85 9 UC R								33			31		15		13					21		
85 9 A A								41			40		26		16					29		
85 10 UC R												28		25		17					24	
85 10 A A												34		29		18					28	

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

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## E Switzerland Male Cigarettes per smoker per day

product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
71 3 UCI								16														
72 5 AI								18														
75 1 UCI*				14					22			18			16						18	
77 4 A					20				21				16									
78 3 UCI								16														
79 5 AI										18												
80 4 A				22					21				18									
81 1 UCI*				17					20		21			21						20		
83 6 UCI*								16	16	16	15	16	16	14	15	13					15	
85 5 AI										18												

## E Switzerland Female Cigarettes per smoker per day

product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
71 3 UCI								10														
72 5 AI																						
75 1 UCI*				13					11			12				13						12
77 4 A					13					18				12								
78 3 UCI								12														
79 5 AI																						
80 4 A					15					18				14								
81 1 UCI*				15					15			16				14						15
83 6 UCI*																						
85 5 AI																						

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

I indicates mean calculated from %s in intervals

All ages: relevant to ages used and as given in original source

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## F Switzerland Male Cigarettes per person per day

product source year	age group																				all ages	% total sales				
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +			
71 3 UC									8.6														***			
72 5 A									10														***			
75 1 UC *					4.9				11				8.0				5.9								7.7	59% <sup>m</sup>
77 4 A					8.6				11				7.5													***
78 3 UC									6.7														***			
79 5 A	9.3																					***				
80 4 A					10				9.3				8.1													***
81 1 UC *					6.8				11				8.0				4.2								7.6	69% <sup>m</sup>
83 6 UC *									6.1	6.5	6.6	6.2	7.3	7.6	6.2	6.5	4.4					6.4				***
85 5 A	8.0																					***				

## F Switzerland Female Cigarettes per person per day

product source year	age group																				all ages	% total sales		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +	
71 3 UC								4.1															***	
72 5 A																						***		
75 1 UC *				5.8					5.3			3.2				1.8							3.5	59% <sup>m</sup>
77 4 A					5.2				5.2				1.9									***		
78 3 UC								5.1															***	
79 5 A																						***		
80 4 A					6.2				5.1				2.2									***		
81 1 UC *				6.4					7.0			4.3				1.6							4.3	69% <sup>m</sup>
83 6 UC *																						***		
85 5 A																						***		

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

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## G Switzerland Male Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales			
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +		
71 3 UC									8.6														***		
72 5 A									10														***		
75 1 UC *					8.2					18			13				9.9							13	59% <sup>m</sup>
77 4 A					8.6					11				7.5											***
78 3 UC									6.7														***		
79 5 A											{ 9.3 }											***			
80 4 A					10					9.3				8.1											***
81 1 UC *					9.8					15			12				6.0							11	69% <sup>m</sup>
83 6 UC *									6.1	6.5	6.6	6.2	7.3	7.6	6.2	6.5	4.4						6.4	***	
85 5 A											{ 8.0 }											***			

## G Switzerland Female Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales				
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +			
71 3 UC									4.1														***			
72 5 A																						***				
75 1 UC *					9.8					8.9			5.4				3.0								5.9	59% <sup>m</sup>
77 4 A					5.2					5.2				1.9									***			
78 3 UC									5.1														***			
79 5 A																						***				
80 4 A					6.2					5.1				2.2									***			
81 1 UC *					9.2					10			6.2				2.3								6.2	69% <sup>m</sup>
83 6 UC *																						***				
85 5 A																						***				

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

All ages: relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

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Table H SWITZERLAND

year	source	% SMOKERS				product code	ORIGINAL		product adjust factor	CIGARETTES PER MAN & PER WOMAN ADJUSTED to MAN CIGS		ADJUSTED to TOT CIGS	
		product /freq code	man cigs m w	tot cigs m w	all prods m w		per man	per woman		per man	per woman	per man	per woman
41													
42													
43													
44													
45													
46													
47													
48													
49													
50													
51													
52													
53													
54													
55													
56													
57													
58													
59													
60													
61													
62													
63													
64													
65													
66													
67													
68													
69													
70													
71													
72													
73	8	UC/U		40 27					m	(	12.1 6.7)		
74													
75	1	UC/*		34 30		UCI*	7.3	3.6	m	59	12.3 6.0		
	1	UC/U		41 30									
	1	A/U			50 30								
76													
77	4	A/R			47 24	A	8.7	3.5					
78													
79													
80	4	A/R			45 23	A	8.5	3.7					
81	1	UC/*		32 28		UCI*	7.2	4.2	m	69	10.4 6.1		
	1	UC/U		36 28									
	1	A/U			44 28								
82	7	U/U			38 22								
83	6	UC/U		38 34		UCI*	5.8						
	6	A/U			44 34								
84													
85													

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USA

Source  
number

- 2 Ref: National Health Interview Surveys in:  
65, 76, 80: US Dept Health & Human Services (1983)  
65: Harris (1983) and US Dept Health & Human Services (1967)  
70, 74, 78, 83: US Dept. Health and Human Services (1987)  
85: US Dept. Health and Human Services (1988)  
Note: 1. Interval estimation based on <11,11-20,21-40,41+ (1956,66,67,68) and -14,15-24,25+ (1965,76,80)  
2. Guesstimates for age 15-19, % smokers, Male 1965:30, 1976-80:25, 1983,85:20; Female 1965:20, 1976-80:25, 1983,85:20. Cigs per person, Male 1965:5.0, 1976:4.0, 1980:3.0; Female 1965,76:3.0, 1980:2.5. For age 15-16, % smokers, Male 1965-68,70,74:15, 1978:12; Female 1965-68:10, 1970:12, 1974:15, 1978:10. Cigs per person, Male:2.0; Female:1.0  
3. In-person household interviews  
4. Consumption per person in 1965 based on regular smokers
- 4 Ref: US Dept of Health, Education and Welfare (1969), (1970)  
67, 68: Monthly Vital Statistics Report (1970)  
GFT table no: 3.1, 3.3  
Note: 1. 1955 data originally in Haenszel et al (1956), later version with minor changes has been used  
2. Supplements to the Current Population Survey.
- |                    | <u>1955</u> | <u>1966</u> | <u>1985</u> |
|--------------------|-------------|-------------|-------------|
| Households         | 21000       | 35000       |             |
| Response rate      | 96%         | 96%         |             |
| Individuals        | 45000       | 69000       | 114000      |
| Proxy interviews M | 42%         | 65%         | ) 45%       |
| F                  | 17%         | 25%         | )           |
3. Average consumptions calculated from regular smokers only  
4. Interval estimation based on 1-9,10-20,21-40,41+  
5. Guesstimates for age 15-17, % smokers, Male:20; Female 1955:10, 1966:15. Cigs per person, Male 1955:2.0, 1966:3.0; Female 1955:1.0, 1966:2.0. For age 15-16, % smokers, 1967,68 only, Male:15; Female:10. For age 15, % smokers, 1985 only, Male and Female:10
- 7 Ref: US Dept Health, Education and Welfare (1972) and (1979)  
GFT table no: 5.1, 5.2  
Note: 1. Telephone surveys (1968 survey included 10% personal interviews in non-telephone households). Sample size 1968: 4931, 1970: 2640, 1972: 2790, 1974: 2553,

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- 1979: 2639
2. Weekly smokers
  3. Interval estimation based on weekly but not daily (assume 0.5), 1-4, 5-9, 10+
- 9     Ref:     Adult Use of Tobacco Surveys in: US Dept Health, Education and Welfare (1973), (1976) and Waingrow et al (1968)
- Note: 1. 1964 and 1966, primarily in person household interviews  
              1970: 91% telephone, 9% personal interviews. Sample size 5200  
              1975: 7% personal interviews, sample size 12,000  
              1986: Telephone interviews only, sample size 13,000, response rate 74.3%
2. Data from 1966 taken from charts
  3. Interval estimation based on 0-4, 5-14, 15-24, 25-34, 35-44, 45-54, 55-64, 65+
  4. Guesstimates for age 15-20, % smokers, Male 1964, 66, 70:30, 1975:25; Female 1964, 66, 70:20, 1975:25. Cigarettes per person, Male 1964, 70:5.0; Female:3.0. For age 15-16, 1986 only, % smokers, Male and Female: 10. Cigs per person, Male:1.5; Female 1.0
- 10    Ref:     Hamtoft and Lindhard (1955)
- Note: 1. No original reference, results taken from graph
2. Whites, in Columbus Ohio. Sample size 2,500
  3. Results are also shown for negroes for certain age groups for all tobacco products - they are always higher than the figure for whites
  4. Interval estimation based on 1-20, >20
  5. Guesstimates for age 15-19, % smokers, Male:30; Female:15. Cigs per person, Male:5.0; Female:2.0
  6. Assumed no female smoker of other products
- 11    Ref:     Harris (1983) quoting Fortune (1935)
- 12    Ref:     Remington et al (1985)
- Note: 1. 1981-83 Behavioral Risk Factor Surveys. Telephone interviews in 28 states, sample size 22236 (80% response)
2. Guesstimates for age 15-17, % smokers, Male and Female:15
- 13    Ref:     Morbidity and Mortality Weekly report (1987) quoting Gallup Poll
- Note:     Guesstimate for age 15-17, % smokers, Male:20; Female:10
- 14    Ref:     Clark (1976)
- Note: 1. Sample size 826, drawn from national probability sample of 3000 households. Year unknown
2. Interval estimation based on packs/day <1, 1, >1 (assume 1-19, 20, 21+)

2501186071

- 15 Ref: Surgeon General (1989) quoting Johnston et al (1987)  
 Note: 1. NIDA sponsored High School Seniors Surveys.  
 Nationally representative samples of high school seniors (age?) but not representative since it does not include high school drop-outs. Sample size 1975: 9400, 1976-79: 15400-17800  
 2. Regular smokers defined as daily, all smokers as any cigarette use in last 30 days.
- 16 Ref: WHO (1989)  
 Note: 1. Regional survey forming part of WHO MONICA Project
- | Region   | Population size | Sample size | Participation rate% | Sample used<br>M F | Date        |
|----------|-----------------|-------------|---------------------|--------------------|-------------|
| Stanford | 84600           | 1402        | 69                  | 698 803            | 05.79-04.80 |
- (whole country 76.7mn)  
 Sample used includes age 25-34, all other figures are for age 35-64 only.  
 2. Overall % relates only to age 35-64.  
 3. Regular cigarette smokers defined as those who smoked cigarettes every day. All smokers additionally includes those who smoked cigarettes occasionally, or lg. pipe tobacco per week, or 1 cigar per week.
- 17 Ref: Hammond and Garfinkel (1961)  
 Note: 1. American Cancer Society Million Person Study.  
 Conducted in 25 states, Oct 1959-Feb 1960.  
 Families with at least one member aged over 45 enrolled by volunteers. Not representative, as sample comprised 97% whites, and over-represented married and better educated persons.  
 2. Interval estimation based on 1-9, 10-19, 20, 21-39, 40, 41+.  
 3. The category A/A includes a few subjects who smoked but with smoking pattern uncertain, and a few women who smoke pipes or cigars only.  
 4. Cigarettes per smoker and per person are based on regular cigarette smokers.

#### General note

For calculation of adjustment factors, 1984 consumption data were used for 1985. 1950 population data were used for 1944, 47, and 49.

Data for sales for 1974 onwards, Ref: Tobacco Industry Profile, Tobacco Institute.

Data for 1979 and 1985 not available.

2501186072

No data on the smoking of HR cigarettes is available for the USA, and it appears to have been relatively unimportant since the war. Hammond (1958) comments that the decline in use of HR probably contributed to the apparent rise in manufactured cigarette consumption between 1935 and 1955.

2501186073

USA

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2501186075

Table A USA

Consumption of Cigarettes and of All Tobacco  
 Sales based data, including estimates of consumption of handrolled cigarettes

Year	Manufactured Cigarettes		Hand-rolled Cigarettes		Total Cigarettes		Total Tobacco	
	total millions annual	n per adult daily	total millions annual	n per adult daily	total millions annual	n per adult daily	total tonnes annual	grams per adult daily
1920	44656	1.7					298600	11.3
1921	50899	1.9					288900	10.7
1922	53582	1.9					307700	11.2
1923	64469	2.3					314700	11.2
1924	71024	2.5					319000	11.1
1925	79976	2.7					324600	11.1
1926	89460	3.0					334600	11.3
1927	97188	3.2					335000	11.1
1928	105927	3.4					338200	11.0
1929	119049	3.8					349200	11.2
1930	119632	3.8					339900	10.7
1931	113455	3.5					327800	10.2
1932	103589	3.2					301600	9.3
1933	111766	3.4					304900	9.2
1934	125700	3.8					322500	9.6
1935	134610	4.0					330700	9.8
1936	153169	4.5					356100	10.4
1937	162629	4.7					362400	10.4
1938	163761	4.6					364100	10.3
1939	172469	4.8					373200	10.5
1940	180664	5.0					382200	10.6
1941	206432	5.6					409900	11.2
1942	235841	6.4					435200	11.8
1943	257743	6.9					441500	11.8
1944	239287	6.3					413700	11.0
1945	267652	7.0					452400	11.9
1946	321475	8.4					485300	12.6
1947	335731	8.6					491900	12.6
1948	348731	8.9					507500	12.9
1949	351809	8.9					505500	12.7
1950	360199	9.0					511900	12.7
1951	379725	9.4					528700	13.0
1952	394109	9.7					560200	13.7
1953	386826	9.4					554100	13.5
1954	368725	8.9					533400	12.8
1955	382061	9.1					545200	12.9
1956	393154	9.2					548800	12.9
1957	409436	9.5					550300	12.7
1958	436354	9.9					570100	13.0
1959	453681	10.2					584400	13.1
1960	470136	10.4					588100	13.0
1961	488119	10.7					611700	13.4
1962	494463	10.6					608600	13.1
1963	509588	10.8					651700	13.8
1964	497447	10.3					648800	13.5
1965	511464	10.5					652300	13.3
1966	522533	10.5					641000	12.9
1967	527800	10.5					631400	12.5
1968	523008	10.2					628100	12.3
1969	510531	9.8					608000	11.7
1970	532769	10.0					612200	11.5
1971	528858	9.7					599200	11.0
1972	551017	10.0					626600	11.3
1973	590300	10.5					639900	11.4
1974	610400	10.7					647227	11.3
1975	619100	10.5					648490	11.0
1976	626700	10.5					671052	11.2
1977	620000	10.2					659658	10.8
1978	616000	9.9					654085	10.5
1979	612000	9.7						
1980	630000	9.8					663615	10.3
1981	640000	9.8					672052	10.3
1982	634000	9.6					663823	10.1
1983	600000	9.0					633189	9.5
1984	600000	8.9					631272	9.4
1985	600000	8.8						

2501186076

## USA

Table B

Total sales of tobacco products, 1974-85

Year	Cigarettes millions	Cigars millions	Large cigars & cigarillos millions	Little cigars millions	Pipe & RYO mn lbs	Chewing tobacco mn lbs	Snuff mn lbs
1974	610,400	6,400			59.6	79.2	25.0
1975	619,100	5,800			52.6	79.1	25.3
1976	626,700		5,400	2,200	53.9	84.0	25.7
1977	620,000		4,950	1,900	47.0	88.7	24.4
1978	616,000		4,700	1,640	44.0	92.3	24.3
1979 n/a							
1980	630,000		4,000	1,400	37.4	106.0	23.9
1981	640,000		3,900	1,300	36.5	106.5	25.5
1982	634,000		3,700	1,300	33.6	88.0	43.9
1983	600,000		3,600	1,330	33.3	86.6	45.7
1984	600,000		3,500	1,300	29.7	86.0	47.5
1985 n/a							

year	Cigarettes tons (assuming .88g per cig)	Cigars tons (assuming 5.6g, 7.94g 1.13g)	Pipe & RYO tons	Chewing tobacco tons	Snuff tons	Total Weight
1974	537,152	35,840	27,029	35,918	11,338	647,277
1975	544,808	32,480	23,855	35,873	11,474	648,490
1976	551,496	45,362	24,444	38,095	11,655	671,052
1977	545,600	41,450	21,315	40,227	11,066	659,658
1978	542,080	39,171	19,955	41,859	11,020	654,085
1979						
1980	554,400	33,342	16,961	48,073	10,839	663,615
1981	563,200	32,435	16,553	48,299	11,565	672,052
1982	557,920	30,847	15,238	39,909	19,909	663,823
1983	528,000	30,087	15,102	39,274	20,726	633,189
1984	528,000	29,259	13,469	39,002	21,542	631,272
1985						

Table C

% of tobacco consumed in different forms, by weight, 1974-85

Year	%cigarettes	%cigars	% pipe & RYO	%ChewTob	%Snuff
1974	82.99	5.54	4.18	5.55	1.75
1975	84.01	5.01	3.68	5.53	1.77
1976	82.18	6.76	3.64	5.68	1.74
1977	82.71	6.28	3.23	6.10	1.68
1978	82.88	5.99	3.05	6.40	1.68
1979					
1980	83.54	5.02	2.56	7.24	1.63
1981	83.80	4.83	2.46	7.19	1.72
1982	84.05	4.65	2.30	6.01	3.00
1983	83.39	4.75	2.39	6.20	3.27
1984	83.64	4.63	2.13	6.18	3.41
1985					

2501186077



frequency product source year	age group																				all ages	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +
35 11 UC U				66																		
44 13 UC U							48															
47 10 UC U									67		61		61		51		35		11			
47 10 A U									78		79		82		71		65		45			
49 13 UC U							54															
55 4 UC R							48		60		58		54		41		22			50		
55 4 UC A							53		64		62		58		46		26			54		
59 17 UC R											59		55		50		36		23		10	47
59 17 A R											67		65		61		52		41		33	59
59 17 A A											67		65		61		53		43		34	59
64 9 UC U									67	60		60		53		51		35			53	
65 2 UC R							49		59				52				28			51		
65 2 UC A									59	61		58		56		47		33		21	52	
66 4 UC R							48		59		57		53		46		24			49		
66 4 UC A							48		59		57		53		46		25			49		
66 9 UC U									62	60		59		54		48		33			52	
67 4 UC U							44		56				50				26			48		
68 4 UC U							41		55				47				25			46		
68 7 UC R	3		14		20		26		36													
70 2 UC U							44															
70 7 UC R	6		17		22		32		43													
70 9 UC U									50	47		49		43		37		23			42	
72 7 UC R	5		18		18		28		32													
74 2 UC U							43															
74 7 UC A	4		18		31																	
75 9 UC U									41	44		47		41		34		24			39	
75 14 UC U																						
75 15 UC R							27															
75 15 UC A							37															
76 2 UC A									46	49		48		41				23			42	
76 15 UC R							28															
76 15 UC A							38															
77 2 U U									41													
77 15 UC R							28															
77 15 UC A							38															
78 2 UC U											38											
78 15 UC R							26															
78 15 UC A							35															
79 2 U U									38													
79 7 UC A	3		14		19																	
79 15 UC R							22															
79 15 UC A							31															
79 16 UC R											36		51		35		31					40
79 16 A A											37		53		38		36					43
80 2 UC A									50	43		43		41				18			38	

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

2501186078

frequency product source year	age group																				all ages		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +	
80 15 UC R						18																	
80 15 UC A						26																	
81 15 UC R						18																	
81 15 UC A						26																	
82 12 UC U							34																
82 15 UC R						18																	
82 15 UC A						27																	
83 2 UC U									36														
83 15 UC R						19																	
83 15 UC A						28																	
84 15 UC R						16																	
84 15 UC A						26																	
85 2 UC U									31	38		38		33				20				33	
85 4 UC U					32																		
85 15 UC R						17																	
85 15 UC A						27																	

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

Frequency: A all smokers (including occasional), R regular or daily smokers

All ages: relevant to ages used and as given in original source

2501186079

frequency product source year	age group																			all ages			
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74		75 - 79	80 +	
35 11 UC U				26																			
44 13 UC U							36																
47 10 UC U									40		42		26		16		12		3				
47 10 A U									40		42		26		16		12		3				
49 13 UC U							33																
55 4 UC R								28		34		31		22		11		3			24		
55 4 UC A								33		39		35		26		13		5			27		
59 17 UC R											42		37		26		13		7		3	27	
59 17 A R											42		37		26		13		7		3	27	
59 17 A A											43		39		27		14		8		3	28	
64 9 UC U									42	41		39		36		21		8			32		
65 2 UC R						34			44				32			9			33				
65 2 UC A								42	44		44		37		25		12		5		34		
66 4 UC R							34		43		41		37		23		8			32			
66 4 UC A							35		43		41		37		23		8			32			
66 9 UC U									49	45		41		42		21		8			34		
67 4 UC U						31			41				31			9			31				
68 4 UC U						29			40				31			10			31				
68 7 UC R	1		7		12	16	21																
70 2 UC U						31																	
70 7 UC R	3		12		16	18	28																
70 9 UC U									32	40		39		36		24		10			31		
72 7 UC R	3		13		20	26	25																
74 2 UC U						32																	
74 7 UC A	5		20		26																		
75 9 UC U									40	35		36		33		26		10			29		
75 14 UC U	27			36																			
75 15 UC R						26																	
75 15 UC A						36																	
76 2 UC A									34	38		38		35			13			33			
76 15 UC R						28																	
76 15 UC A						38																	
77 2 U U									31														
77 15 UC R						30																	
77 15 UC A						40																	
78 2 UC U											30												
78 15 UC R						29																	
78 15 UC A						39																	
79 2 U U									29														
79 7 UC A	4		12		26																		
79 15 UC R						28																	
79 15 UC A						37																	
79 16 UC R											34		45		33		30					37	
79 16 A A											34		45		34		30					37	
80 2 UC A									33	32		35		31			17			30			

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 Frequency: A all smokers (including occasional), R regular or daily smokers  
 All ages: relevant to ages used and as given in original source

2501186080

frequency product source year	age group																					all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +	
80 15 UC R							24															
80 15 UC A							34															
81 15 UC R							22															
81 15 UC A							32															
82 12 UC U																29						
82 15 UC R							24															
82 15 UC A							33															
83 2 UC U																29						
83 15 UC R							23															
83 15 UC A							33															
84 15 UC R							21															
84 15 UC A							32															
85 2 UC U									33	32		32			30				14			28
85 4 UC U																25						
85 15 UC R							21															
85 15 UC A							32															

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
 Frequency: A all smokers (including occasional), R regular or daily smokers  
 All ages: relevant to ages used and as given in original source

2501186081

product source year	age group																				all ages		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79		80 +	
47 10 UCI*									28		29		30		29		28		25				
55 4 UCI							16			18		19		19		17		14			18		
59 17 UCI											22		22		21		18		14			21	
64 9 UCI									22														
65 2 UCI						16			19				19				15			18			
65 2 UCI										18	20		21		21			16			20		
66 4 UCI							17			19		20		20		19		15			19		
67 4 UCI						16			20				20				15			19			
68 4 UCI						16			20				20				16			19			
68 7 UCI	7.3		8.9		10	11	14																
70 2 UC									21	21		23		24		22		17			22		
70 7 UCI	6.9		6.3		10	12	13																
70 9 UC									22														
72 7 UCI	7.0		9.2		11	15	16																
74 7 UCI	11		14			17																	
75 2 UC									19	22		23		25		25		20			23		
75 9 UC										23													
75 14 UCI																							
76 2 UCI									19	21		23		23				18			21		
79 7 UCI	9.5		13			15																	
80 2 UC										19	22		26		27		23		21			23	
80 2 UCI										19	21		24		23				20			22	
86 9 UC						23																	

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

I indicates mean calculated from %s in intervals

All ages: relevant to ages used and as given in original source

2501186082

product source year	age group																					all ages
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	80 +	
47 10 UCI*									22		22		23		21		19		18			
55 4 UCI								12		13		13		13		12		9.4			13	
59 17 UCI											16		16		15		13		11			15
64 9 UCI									17													
65 2 UCI						13			16				15				12				15	
65 2 UCI									15	16		17		16				13				16
66 4 UCI							14			16		16		16		15		13			16	
67 4 UCI						14			16				16				13			15		
68 4 UCI						14			16				16				13			16		
68 7 UCI	5.1		9.3		8.1	8.3	10															
70 2 UC									16	18		19		18		17		14			18	
70 7 UCI	6.3		7.8		9.7	9.8	10															
70 9 UC									18													
72 7 UCI	6.6		10		7.3	11	13															
74 7 UCI	6.2		11			13																
75 2 UC									19	19		20		20		19		16			19	
75 9 UC									19													
75 14 UCI							18															
76 2 UCI									16	18		18		18				15				18
79 7 UCI	8.0		12		13																	
80 2 UC									18	19		23		21		20		16			20	
80 2 UCI									16	19		20		19				15			18	
86 9 UC						19																

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products

I indicates mean calculated from %s in intervals

All ages: relevant to ages used and as given in original source

2501186083

F USA

Male Cigarettes per person per day

product source year	age group																				all ages	% total sales		
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +	
47 10 UC *									19		18		18		15		9.7		2.8			119% <sup>m</sup>		
55 4 UC								7.5		11		11		10		7.1		3.1			8.9	62% <sup>m</sup>		
59 17 UC											13		12		11		6.6		3.0			9.8	***	
64 9 UC									12													75% <sup>m</sup>		
65 2 UC									10		12		12		11				4.7				10	70% <sup>m</sup>
65 2 UC						7.5				12				9.9				4.1				9.4	65% <sup>m</sup>	
66 4 UC							8.0			11		11		11		8.7		3.6				9.3	63% <sup>m</sup>	
67 4 UC						7.0				11				9.8				3.9				9.0	60% <sup>m</sup>	
68 4 UC						6.6				11				9.4				4.0				8.7	62% <sup>m</sup>	
68 7 UC	0.2		1.2		2.1	2.9	4.9																***	
70 7 UC	0.4		1.0		2.2	3.7	5.7																***	
70 9 UC									9.3													68% <sup>m</sup>		
72 7 UC	0.3		1.6		2.0	4.0	5.3																***	
74 7 UC	0.4		2.6			5.1																	***	
75 14 UC																						***		
76 2 UC									8.5		10		11		9.4				4.1				8.9	64% <sup>m</sup>
79 7 UC	0.3		1.7			3.0																	***	
80 2 UC									7.5		9.1		10		9.6				3.6				8.3	63% <sup>m</sup>

F USA

Female Cigarettes per person per day

product source year	age group																				all ages	% total sales	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +
47 10 UC *									8.9		9.2		5.9		3.3		2.3		0.5				119% <sup>m</sup>
55 4 UC								3.3		4.6		4.0		2.8		1.2		0.3			3.0	62% <sup>m</sup>	
59 17 UC											6.6		5.9		3.9		1.7		0.7			4.1	***
64 9 UC									5.4													75% <sup>m</sup>	
65 2 UC									6.2	7.2		7.4		5.1				1.3				5.4	70% <sup>m</sup>
65 2 UC						4.4				6.7				4.7				1.1			4.9	65% <sup>m</sup>	
66 4 UC							4.9			6.8		6.6		5.9		3.3		1.0			4.9	63% <sup>m</sup>	
67 4 UC						1.4				6.6				4.9				1.1			4.8	60% <sup>m</sup>	
68 4 UC						4.1				6.6				4.8				1.3			4.7	62% <sup>m</sup>	
68 7 UC	0.0		0.7		0.9	1.3	2.1																***
70 7 UC	0.2		1.0		1.6	1.7	2.9																***
70 9 UC									5.5													68% <sup>m</sup>	
72 7 UC	0.2		1.3		1.4	2.8	3.2																***
74 7 UC	0.3		2.3		3.4																	***	
75 14 UC							7															***	
76 2 UC									5.4	6.8		6.9		6.3				2.0				5.8	64% <sup>m</sup>
79 7 UC	0.3		1.4		3.3																	***	
80 2 UC									5.4	5.9		5.1		5.8				2.6				5.5	63% <sup>m</sup>

2501186084

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products  
All ages: relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author

G USA

Male Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales	
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +
47 10 UC *									16		15		15		12		8.1		2.4			119% <sub>m</sub>	
55 4 UC								12		18		18		16		12		5.0			14	62% <sub>m</sub>	
59 17 UC											13		12		11		6.6		3.0		9.8	***	
64 9 UC									15													75% <sub>m</sub>	
65 2 UC									15		17		18		15			6.7			15	70% <sub>m</sub>	
65 2 UC							12			18			15			6.4			15	65% <sub>m</sub>			
66 4 UC								13		18		18		17		14		5.7		15	63% <sub>m</sub>		
67 4 UC							12			19			16			6.6			15	60% <sub>m</sub>			
68 4 UC							11			18			15			6.4			14	62% <sub>m</sub>			
68 7 UC	0.2		1.2		2.1		2.9		4.9													***	
70 7 UC	0.4		1.0		2.2		3.7		5.7													***	
70 9 UC									14													68% <sub>m</sub>	
72 7 UC	0.3		1.6		2.0		4.0		5.3													***	
74 7 UC	0.4		2.6			5.1																***	
75 14 UC																							***
76 2 UC									13		16		17		15			6.4			14	64% <sub>m</sub>	
79 7 UC	0.3		1.7			3.0																***	
80 2 UC									12		14		16		15			5.7			13	63% <sub>m</sub>	

G USA

Female Cigarettes per person per day adjusted

product source year	age group																				all ages	% total sales			
	12	13	14	15	16	17	18	19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79			80 +		
47 10 UC *									7.5		7.7		5.0		2.8		1.9		0.4			119% <sub>m</sub>			
55 4 UC								5.4		7.5		6.5		4.5		1.9		0.5			4.9	62% <sub>m</sub>			
59 17 UC											6.6		5.9		3.9		1.7		0.7			4.1	***		
64 9 UC									7.2													75% <sub>m</sub>			
65 2 UC									8.8		10		11		7.2				1.8					7.7	70% <sub>m</sub>
65 2 UC						6.8				10				7.3				1.7					7.6	65% <sub>m</sub>	
66 4 UC							7.8			11		11		9.4		5.3		1.6					7.8	63% <sub>m</sub>	
67 4 UC						2.4				11				8.2				1.8					8.1	60% <sub>m</sub>	
68 4 UC						6.6				11				7.7				2.1					7.6	62% <sub>m</sub>	
68 7 UC	0.0			0.7		0.9	1.3	2.1															***		
70 7 UC	0.2			1.0		1.6	1.7	2.9															***		
70 9 UC									8.1													68% <sub>m</sub>			
72 7 UC	0.2			1.3		1.4	2.8	3.2															***		
74 7 UC	0.3			2.3			3.4																***		
75 14 UC								7														***			
76 2 UC									8.4		11		11		9.8				3.1					9.0	64% <sub>m</sub>
79 7 UC	0.3			1.4			3.3																***		
80 2 UC									8.6		9.4		8.1		9.2				4.1					8.7	63% <sub>m</sub>

2501186085

U unspecified \* refer to notes

Product: MC manufactured cigarettes, TC total cigarettes, UC cigarettes type unspecified, A all products relevant to ages used and as given in original source

% total sales: % of national sales of M manufactured or T total cigarettes implied by survey

m indicates hand-rolled cigarettes (probably) included in survey but national consumption unknown

\*\*\* cannot be calculated --- adjusted by original author



Table H USA

year	source	% SMOKERS			CIGARETTES PER MAN & PER WOMAN						ADJUSTED		
		product /freq code	man cigs m w	tot cigs m w	all prods m w	product code	ORIGINAL per man	per woman	product adjust factor	ADJUSTED to MAN CIGS per man	per woman	ADJUSTED to TOT CIGS per man	per woman
40													
41													
42													
43													
44	13	UC/U		46 34					m (	8.1	4.8)		
45													
46													
47	10	UC/U		52 27		UCI*	14.7	5.8	m 119	12.3	4.9		
48	10	A/U			70 27								
49	13	UC/U		52 32					m (	12.1	5.9)		
50													
51													
52													
53													
54													
55	4	UC/R		48 23		UCI	8.5	2.8	m 62	13.7	4.6		
56	4	UC/A		52 26									
57													
58													
59													
60													
61													
62													
63													
64	9	UC/U		51 30		UCI	10.6	5.1	m 75	14.2	6.8		
65	2	UC/R		49 32		UCI	9.0	4.7	m 65	13.9	7.2		
66	2	UC/A		50 32					m (	13.9	7.2)		
67	4	UC/R		47 30		UCI	8.7	4.7	m 63	13.9	7.4		
68	4	UC/A		47 31									
69	9	UC/U		50 32					m (	14.1	7.3)		
70	4	UC/U		46 30		UCI	8.6	4.1	m 60	14.4	6.9		
71	4	UC/U		44 29		UCI	8.3	4.6	m 62	13.4	7.3		
72													
73													
74	2	UC/U		41 31					m (	13.4	8.1)		
75	9	UC/U		37 29					m (	13.1	8.2)		
76	2	UC/A		40 31		UCI	8.3	5.3	m 64	12.9	8.2		
77	2	U/U			39 31				m (	12.6	8.0)		
78	2	UC/U		36 29					m (	12.2	7.8)		
79	2	U/U			37 29				m (	12.0	7.5)		
80	2	UC/A		38 29		UCI	7.7	4.8	m 63	12.3	7.6		
81													
82	12	UC/U		33 28					m (	11.5	7.9)		
83	2	UC/U		34 28					m (	10.9	7.3)		
84													
85	2	UC/U		32 27					m (	10.5	7.2)		
	4	UC/U		31 25					m (	10.8	6.9)		

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